

Visual Studio 2019

DR. RONAKKUMAR KANTILAL PANCHAL (PhD) Semantic/Knowledge Graph Engineer (Ontologist) Certified in AWS Database Speciality / GCP Cloud Engineer

Data Scientist, Ex- Assistant Professor and Fullstack Software engineering specializing in various platforms and technologies. Dedicated to tackling new technologies and methods to expand and apply expertise to challenging problems. Strives to build and improve reusable tools and solutions to achieve repeatable quality results.

	tools and solutions to achieve repeatable quality results.	
PERSONAL DETAILS	EDUCATION	
Email ID:	Computer Science, Doctor of Philosophy	Completed
ronakvtcbb@gmail.com Mobile No.: 09898257016	Research Area: Semantic Web, SPARQL, Ontology and Data Science	December
PG - Address:	Sabarmati University	2020
Ravet, Pune, Maharashtra	Ahmadabad, Gujarat	
Permanent: 18, Sai	Research, Research Methodology	Graduated
Ashish Bungalow, Baben,	Post Graduate in Research Methodology	April 2013
Bardoli, Gujarat Social Websites:	Veer Narmad South Gujarat Surat	
https://drronakpanchal.wor	Surat, Gujarat	
dpress.com/	Information Technology, Master of Science	Graduated
LinkedIn:	MSc in Information and Communication Technology	April 2008
http://linkedin.com/in/ronak -panchal-phd	Veer Narmad South Gujarat University Surat – Marks 62%	
Skype: ronnypanchal	Surat, Gujarat	
GitHub:	Computer Science, Bachelor of Science	Graduated
https://github.com/ronupan	BSc in Computer Science	April 2006
<u>chal</u> Birthday: March 27, 1986	Veer Narmad South Gujarat University Surat – Marks 64%	7.0111 2000
Gender: Male	Surat, Gujarat	
Marital Status: Married		
Nationality: INDIA Passport: M9049510,		
Expires 5/7/25		
SKILL	WORK EXPERIENCE	
Cloud Certified	Project Manager, Cognizant, Pune (Fulltime) USA	Current, 2021
GCP Associate Cloud	Cognizant Projects (Technical Role: Senior Data Scientist)	
Engineer – Aug 2022	1. STORM-Acceleration with GenAl Project (Sanofi) - Duration: Dec 2023 to till da	ate
AWS Database speciality	Technologies used: Generative AI, Prompt Engineering, LLM, Knowledge Graph (n	
AWS Developer	/ RDF graph), Vector DB. openai, Azure Cosmo DB, Azure SQL, Python, Streamlit, C	
 AWS Cloud Essentials Snowflake Certification 	Description: A chat application to be built to provide the suggestion on which categories the defined application	ory of 7R to be
Languages	used to the defined application.	
 Python (Django/Flask) 	2. Ceeza V4 (Boehringer Ingelheim) – Duration: April 2023 to Nov 2023	
ASP.NET Core,API,MVC	Technologies used: AWS Cloud9, DevOps Terraform, JIRA, BitBucket,	
Data Science (R/Python)	Description: Animal Health business unit is now the second largest animal health pla It is migration ETL project from SQL server or diverse source to Postgres with AWS Ar	
 NodeJS / ReactJS 	and Team management and solutions.	
• C/C++	3. Wood Mac-Len Power - Duration: Feb 2023 to April 2023	
• C# / VB.Net	Technologies used: Neo4j, Python Streamlit framework, AWS service, PostgreSQL	
JAVA / Android / Kotlin	Description: Energy Transition Practice (ETP) data manager is centralized data	
PHP(WordPress)Dart/Flutter	energy transition data in Wood Mackenzie. Graph Data Modelling is refactoring usi	ng PostgreSQL
	from Neo4j, API is developed in GraphQL.	
Web Components	2. Cyrus CDP and MDM (Bayer) - Duration: May 2022 to Jan 2023	moDR Athene
HTML5	Technologies used : Snowflake, PySPARK, AWS services (EC2, IAM, S3, Dyna Glue, Step Function, SageMaker, ML, Lambda, SES, RedShift, Neptune – OpenCypl	
Javascript OSS/JOUEDX	Description: Cyrus CDP (Lift & shift) is a ETL (Extract, Transform & Load) pipeline le	
CSS/JQUERYAJAX/SVG	data migration from source files to S3 landing to raw layer (parquet format) and enricl	h layer to model
 AJAX/SVG W3C/BootStrap 	layer (snowflake tables through store procedure) and Data visualization in Tabluea. I	
Database	handling, Task assignments to team member, Problem solution, Coding in AWS serves store proc/query/storage integration/Copy/SQL queries and Code deployment using	
Neo4j and Cypher query	terraform pipeline.	, 31105 01/00 -
certified	3. TarDIS (Bayer) - Duration: Jan 2022 to Apr 2022	
 MySQL, SQLite 	Technologies used: Python Django, ReactJS, AWS, Amazon Neptune, SPARQL,	Elastic Search
GraphQL	Query, Semantic Modelling in Tarql/Protege/Kerma (Data Integration Tool)	
mongoDB	Description: TarDIS Application is used by data science & lab scientists to search for	
MS SQL Server	data which is present in the ontology database. Various format or sorting, hiding,	
Excel/VBA MS Office Access	based on a specific criterion, sharing, and saving the result. The search can be done queries which shell be created by DB team or Data Scientist. And, there is fuzzy sear	
MS Office, Access	thing using Elastic Search.	
 Google firebase Development Tools 	4. INDIGO (Bayer) - Duration: Sept 2021 to Jan 2022	
VS Code	Technologies used: Ontology/RDF Graph, TopQuadrant EDG, SPARQL, NodeJS	

 PyCharm / Anaconda Jupyter NoteBook Tableau /SPSS Google Cloud, Docker Research Area Semantic Web Ontology/RDF/ SPARQL Machine Learning & NLP Image Processing Data Science Cloud Database and Services Hardware Rasbarry Pi Arduno for IoT Semantic Web Tools Protege + WebProtege + Design Ontology and RDF Apache Jena fuseki Server +SPARQL Cypher Query on Neo4j GraphDB + OntoRefine Tableau ontology integra tion WIDOCO - LODE Cellfie Plugin and many reasoner SmartLogic Semaphore OOP and Cmap editor Amazon Neptune 	 Description: INDIGO (INtegrated DeposItory Generic data Object) is central referer platform for Bayer Crop Science R&D. It is embedded in framework defining da priciples, processes and structures, providing tools for data management, st visualization. It is built on semantic web technologies, complying with F.A.I.R.(Finda Interoperable, Reusable) data management principles. This allows for an efficien external and internal data resources of varying structure complexity ranging from sterms and codes to taxonomies and ontologies. Core Skills: Knowledge of Developing logical, semantically rich, and extensible data movely worked on creation and maintenance of Taxonomies(poolparty), Knowledge representation (Neo4j / Knowledge graphs / ontology) using Semantic Web Knowledge of RDF, RDFS, OWL,SKOS,ESCO, Property, HealthCare, Unipublesease Sustainable and Digital Ontology. working with SPARQL knowledge for Triple stores and the associated tools Quadrant EDG, Protégé, SmartLogic, Apache Jena Fuseki, Virtuoso, Graph Blazergraph, Amazon Neptune, neo4j with neosemantic, Protege, TOP Qua Semaphore. Working knowledge of WIDOCO and LODE ontology documentation Working Knowledge of FE: ReactJS, react-native, flutter and BE: hands-on eworking Nich Newledge of Catbot Development (using Dialogflow or any other Experience working on ML or NLP projects and data scraping and automatii. Knowledge of NLI (BERT, GPT, Word Embedding, NER,Custom NER,nGrr modeling), Machine Learning, Graph Learning, NER,Custom NER,nGrr modeling), Machine Learning, Graph Learning, Nev4j, NodeJS and mongoD. Working with AWS Service like S3, EC2, Glue (PySPARK), DynamoDB, Ste Lambda, Neptune, Athena, Cloud9, SageMaker, Code Buider Working in Microsoft Azure Databricks and Warehouse like snowflake Data Visuization tools: Tableau and google Data studio	ata governance tewardship and ble, Accessible, at integration of simple lists with dels. e standards. rot,SIO,Gene, stacks like Top bDB, adrant EDG, on for plugin and experience , C# web API r platform) on hpy, etcp am, topic DB ep Function, existing graph August 2021 k API plus
 Writing, Speaking Long-Term Dedication 	mongodb. JSON-LD is used for data insertion, deletion and updating and SHACL SPARQL is used text mining and recommendation	
Community ServiceTraining in Unrelated	Implement GUI tool for uploading Named Graph using get, post, put and delete Al	PI July 2021
Area, Team oriented and	Exocube, Autocanada (Part time, Remote work), Canada Role: Data Engineering, checking data quality in Apache Spark, Machine Learning s	
Results driven.Project Management,	on Microsoft Azure, Databricks csv file integration in Tableau	
Public Relations.	Full stack python Developer, Auratech, Mumbai (Google client) Responsibility / Role(Part Time):	March 2021
Working Efficiently.	ODM Android Portal rewrite in BE:Python Django, FE:ReactJS and GraphQL API.	
	1. Pharmacology Ontology(OWL), Fiverr Client	February 2021
	 Created Drug, Drug Manufacturing, Content, Disease related pharmacology onto and uploaded on Apache Fuseki SPARQL server integration with UI in semantic w 	••••••
	Flask/Python and Hosting on AWS cloudAlso develop eye ontology, diabetic ontology, hospital ontology, used Disease Ontology	
	many more 1. WayToMakeMoney, USA 2. Occubly limited, UK	April 2020
	Data Scientist, Work From Home, Fiverr Client Responsibility / Role(Part Time):	
	 Extracting large data from concern ontologies and import in new W2MM ontolog and accessing via apache Jena Fuseki server with custom dashboard in python Dj Integration CRUD operation using SPARQL query in Django Python Knowledge Graph Expert in RDF and Neo4j with Cypher Query Apply WordNet library of NLP and ML algorithm on RDF dataset 	
	Edwisor Company Data Scientist, Gurugram, Haryana	December 2018
	 Responsibility / Role(Part Time): Selecting features, building and optimizing classifiers using machine learning techn Extending company's data with third party sources of information when needed Enhancing data collection procedures to include information that is relevant for b systems 	

• Processing, cleansing, and verifying the integrity of data used for analysis

	-	
	Good applied statistics skills, such as distributions, statistical testing, regression, etc.	
	• Excellent understanding of machine learning techniques and algorithms, such as Linear	
	Regression, Logistic Regression, k-NN, Naive Bayes, SVM, Decision Forests, etc.	
	• Experience with common Data science toolkits, such as Python,R, Weka, NumPy, etc. Excellence	
	in at least one of these is highly desirable	
	÷ ·	
	Great communication skills, Good scripting and programming skills	
	Experience with data visualisation tools, such as D3.js, GGplot, etc.	
	 Proficiency in using query languages such as SQL, NoSQL (MongoDB) 	
	Good applied statistics skills, such as distributions, statistical testing, regression, etc.	
	Vidyabharti Trust College of BCA July 2009	
	Assistant Professor, Surat, Gujarat to August 2021	
	Responsibility / Role(Full Time):	
	 Prepared course syllabi and collaborated in writing modules for Dynamic Learning System 	
	 Carried out an additional responsibility as the student organization's adviser for one academic year 	
	Encouraged students to participate in the class	
	Online educator/facilitator in the Blackboard environment.	
	Drafted and edited reports of the College-wide Retention sub-committee	
	Highly engaged with Technologies training and Project work	
CERTIFICATION AND	PROJECTS	
EXTRA CURRICULAR		
ACTIVITIES		
Certified in Data Scientist	Project 1: Data Science Project from an initiative IBM	
from IBM and Edwisor	1. Cab Fare Prediction,	
company, Gurugram,	2. Cancer detection,	
Haryana	3. Predicting economic trends,	
Certified in Python with	4. Predicting customer churn	
Data Science from	5. Recommendation Engines	
NPTEL	Project Type: Data Science R / Python	
Certified in Python	• Skills which are include regression, classification, clustering, scikit learn, scipy for Data analysis	
Ethical Hacking from	using descriptive analysis model is built in Python or R.	
Udemy	Project 2: MultiDialectal Ontology supporting NLP for Maxicon	
Certified in Python for	Project Type: Data Science Python	
Machine Learning from	• The objective of this research work for translating government document of maxicon regional	
EICT, IIT Roorkee	language to state language to electronic communication with the Mexicon Ethic Groups.	
Certified in Tableau from	Project 2: Knowledge Graph Generating using NLP on COVID19 Dataset	
Udacity	 Project Zype: Data Science Python 	
Certified in Semantic	 The objective of this tool to generate knowledge graph based on WHO covid19 dataset and identify 	
Web from PoolParty,	entity and relationship into visualization in image format and also get information through question	
USA	and answering from covid19 based tweeter tweet.	
Certified in Semantic		
Web Technologies from	Project 2: Question-Answering Tools for Indian Missile using Flask with Neo4j	
openHPI, USACertified in Web of Data	 Project Type: Flask Python & Neo4j 	
(Semantic Web) from	• The objective of this to graphical represent of neo4j cypher queries based question into graphical	
Coursera, USA	answer.	
Certified in Django and	Project 3: Python Project	
Python from Eduonix	1. Face Recognized (Project Type: Image Processing)	
Certified in Data Studio	2. Employee Leave Management System (Project Type: Django Framework)	
from Google Academy.	Project URL: https://github.com/ronupanchal	
	• Development using OpenCV library, developer can capture face 30 images and store in yml file	
	and face recognised using webcam for future used like attendance. Python Django framework with	
	MySQL CRUD Operations	
	Project 5: To Predict individual medical costs billed by health insurance	
	Project Type: Artificial Intelligent (AI) Data Science	
	Project URL: https://github.com/ronupanchal/ML_Algorithm_code	
	• Linear Regression is Supervised learning the algorithm used when the target/dependent the	
	variable is continuous in real numbers. It finds a relationship between the dependent variable y and one or more independent variable x using the best fit line.	
	 It works on the principle of Ordinary Least Square(OLS) or Means squared Error (MSE). In Statistics, OLS is a method to estimate unknown parameters of the linear regression function, its 	
	goal is to minimize the sum of square differences between observed dependent variables in the	
	given data set and those predicted by the linear regression algorithm	
	Project 4: AISHE Semantic Web Enable Ontology (Ph.D. work)	
	Period: August 2016 – Sept 2020	
	 Project Type: Artificial Intelligent (AI) Semantic Web and Ontology 	
	 Project URL: <u>https://github.com/ronupanchal/AISHE_SEMANTICE_WEB</u> 	
	 Developed Ph.D project in domain of All India Survey of Higher Education (AISHE) using PHP, 	
	Protege, Apache Jena Fuseki, easyRDF, SPARQL, Docker, , Widoco, GraphDB, Virtual Private	
	Server and Ontology Database.	
	 Ontology, JSON-LD, SHACL, RDF, Apache JENA Fuseki, SPARQL, GraphDB, Top Quadrant EDG 	
	and Data Science works on Fiverr	
LANGUAGE	CAREER HIGHLIGHTS	
English	• Data Scientist with 5+ years of experience executing data-driven solutions to increase efficiency,	
• Hindi	accuracy, and utility of internal data processing.	
Guiarati		

Gujarati

d dinty of internal data processing.

Dublications	 Experienced at creating data regression models, using predictive data modelling, and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems. AWARDS & HONORS
Publications • 10 th Books • 28rd Research Papers in International and National Scopus / Springer / ACM or UGC approved Journal	 AWARDS & HONORS Consistently ranked in the 1st of my BSc Computer Science class from 2003 to 2006. Published 10th Books (DBMS, Information system and Computer Application - I, III,IV,VI, Fundamental of E-Business) Published 20 Research Papers in National and International Journals PG Recognised from Veer Narmad South Gujarat University, Surat Visiting faculty in IGNOU, Baba saheb ambedkar Open University (BCA and MCA Course)
DECLARATION I, RONAKKUMAR KANTILAL knowledge and belief. RONAKKUMAR KANTILAL BARDOLI, Gujarat APRIL 05, 2021	PANCHAL, hereby declare that the information contained herein is true and correct to the best of my