

JAYA PRAKASH NARAYANA RAAVI

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TECHNICAL SKILLS

Data Engineering	: Python, SAS, SQL, R Programing, Kafka, Spark, Snowflake, Databricks, ETL/ELT Data Pipelines.
Databases	: MySQL, MongoDB, RDS, Big Query.
BI Tools	: Microsoft Excel (Advanced), Power BI, Data Studio, Tableau, Alteryx, Looker, DAX.
Machine Learning & AI	: Pandas, Scikit-Learn, TensorFlow, PyTorch, Deep Learning, CNN
Cloud & Infrastructure	: Azure, GitHub, Docker, Kubernetes, Terraform, Jenkins, Linux
LLM's & APIs	: OpenAI, Data Mining with LLM's, REST APIs, JSON, XML, Webhooks, Postman

EXPERIENCE

Research Specialist at University of Memphis	May 2025 – present
<ul style="list-style-type: none">– Built and optimized scalable ETL pipelines to collect, clean, and transform large datasets using Python and SQL.– Designed and managed Snowflake data warehouses to support analytics, reporting, and machine learning workflows.– Collaborated with cross-functional teams to define data models, validate inputs, and ensure high data integrity.– Automated data ingestion and transformation using Airflow and containerized environments for scalability.– Implemented data quality checks and monitoring frameworks to maintain reliable, production-ready datasets.– Optimized Snowflake queries and warehouse performance, improving processing efficiency and cost control.	
Data Analyst at University of Memphis	Nov 2023 – Sept 2024
<ul style="list-style-type: none">– Cleaned and processed over 2M records, improving data accuracy by 95% and reducing errors by 80%.– Implemented a dashboard for more than 20 planners that visualized population, household, employment, and land usage data across Tennessee regions using R and several libraries.– Analyzed datasets to identify patterns and trends, providing actionable insights that enhanced research project outcomes.– Constructed 10+ dashboards and visualizations using Power BI and Tableau, effectively communicating key findings.– Python and MATLAB were used to automate 70% of data processing tasks, increasing output and reducing labor hours.– Employed VISSIM scripting for traffic data simulation and modeling for 30+ miles, improving accuracy by 25%.– Collaborated with research teams to understand data requirements, translating them into insightful analytical reports that informed decision-making.	
Business Intelligence Developer at Innovapath, INC	Jul 2021 – Nov 2022
<ul style="list-style-type: none">– Designed and maintained web-based dashboards using React.js, making sure they are compatible with cross browsers.– Built interactive data visualizations using D3.JS and Power BI, making the dashboards easy to understand and use.– Developed RESTful APIs using Node.js and Express.js, connecting them to MongoDB for storing and retrieving data.– Used Git for version control and participated in Agile processes like sprint planning and daily meetings.– Worked closely with developers, data analysts, and designers to add new features and improve existing ones, contributing to code reviews and discussions.	

PROJECTS

Database Design for Referral Management	Mar 2024 - Jul 2024
<ul style="list-style-type: none">– Created and constructed a MySQL database to facilitate client follow-ups and referral management.– Automated the entire data collection and processing process using Python, reducing manual work.– Composed real-time dashboards in Power BI to give team members clear insights into referral trends and follow-up results, helping them make better decisions. Improved the speed of database queries by optimizing how data is retrieved.– Worked with the team to ensure data security and meet project needs.	
Tennessee Statewide Land Use Dashboard	Feb 2024 - Apr 2024
<ul style="list-style-type: none">– Designed an interactive R-based dashboard to analyze and visualize Tennessee's population and land use data.– Conducted extensive data wrangling, merging geographic shapefiles with land-use datasets to ensure consistency.– Produced through land, home, employment, and population visualizations for different regions and MPOs, enabling insights based on data.– Implemented dynamic filtering on specific regions, categories, demographics, enhancing decision-making capabilities.	

EDUCATION

Master of Science, University of Memphis, Tennessee, USA CGPA (3.88 / 4)	Jan 2023- Dec 2024
Master's in data science with a minor in Bio-statistical learning	
Bachelor of Technology, JNTUA college of engineering Pulivendula, INDIA CGPA (3.92 / 4)	June 2018- May 2022
Bachelor's in electrical and Electronics Engineering with a minor in Computer Science	

CERTIFICATIONS

<ul style="list-style-type: none">– Published a research paper in Transportation Research Board (TRB) Hybrid Optimization of Wiedemann 99 Car-Following Parameters for Accurate Calibration of Microsimulation Model for Tennessee's Peak-Hour Freeway Traffic.– IBM Data Science Basics covers the fundamental aspects of data science, various roles within the field, the data analysis process, big data, machine learning, deep learning, and artificial intelligence.	
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