

Supriya Pasupuleti

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Education

• Sri Venkateswara Engineering College for Women

Bachelor of Technology in Computer Science; Percentage: 78.86

Tirupati, IN

June. 2015 – May. 2019

Programming Skills

Languages: Python

Database Management: PostgreSQL, MySQL, MongoDB, Pandas

Version Control: Git

Web Development : Flask

Cloud Services : GCP - Big Query, Cloud Storage, Cloud Functions, Containers, AWS - Lambda

Operating System : Windows, Linux

Work Experience

• Saama Technologies

Chennai, IN *Systems Engineer March 2022 - Present*

- **Data Conversion Innovation:** Engineered a tool to detect missing transactions during clinical data conversion, reducing 80% of manual work involved by using Pandas Data frames for data manipulation.
- **AI-Powered Code Generation and Quality Assessment:** Integrated GPT-3.5 Turbo model to generate Python code that takes and processes Pandas data frames as input with a 70% accuracy rate.
- **Automated Migration of Python Programs:** Collaborated on automation of migration for 1000+ Python programs across studies, connecting seamlessly to patient insights database.
- **Proficiency in Git Actions:** Managed a portfolio of over 100 codes with comprehensive logging and traceability. Proficient in Git Actions for post-push task automation, code review, and validation.
- **API Development and Search Functionality:** Coordinated development of robust APIs enabling search functionality in four formats: exact, starts with, ends with, and contains search.
- **Database Automation:** Engineered tailored AWS Lambda function to automate PostgreSQL database updates, reducing manual work by 20 hours weekly, enhancing operational efficiency.
- **Performance Optimization :** Strategically optimized advanced PostgreSQL queries, achieving 70% enhancement in data retrieval efficiency, significantly elevating overall system performance.

• Infosys Limited

Hyderabad, IN

Senior Systems Engineer

December 2019 - March 2022

- **Knowledge Extraction and Optimization:** Optimized Python Flask APIs for 100% efficiency in extracting knowledge from PDFs, text, and web URLs.
- **Efficient Knowledge Storage:** Expertly set up MongoDB to streamline storage and retrieval of diverse knowledge from text, web pages, and PDFs, ensuring seamless data organization and quick access.
- **Enhanced Data Representation:** Innovatively transformed MongoDB-stored data into a Neo4j graph database, elevating data representation and analysis capabilities, enabling comprehensive insights and strategic decision-making.
- **Data Integration and File Movement:** Implemented Python and Shell scripting codes to facilitate seamless movement of more than 200 files per hour from Google Cloud Storage (GCS) to BigQuery.
- **Data Conversion and Transformation:** Collaborated on Python scripts for converting nested XML and JSON data, extending up to 6 degrees, into CSV format.

- **Database Management and Metadata:** Played a crucial role in creating and updating PostgreSQL metadata tables, ensuring data consistency and eliminating redundancies.
 - **Streamlined Data Validation Processes:** Developed automated data validation scripts to ensure accuracy and integrity of data transferred from GCS to BigQuery, reducing error rates by 25%. **Certifications**
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- Infosys Certified Python Developer, Infosys.
- Infosys Certified Mongo Developer, Infosys.
- Infosys Certified Database and SQL Professional, Infosys