

Prudhvi Arun Chekka

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Hi there, I'm a 5 year Industry Experienced Software Engineer working with Python, Cloud Infrastructure, and Data science, building out full-stack and backend systems used by more than 2 million users.

Experience

Research Assistant

Aug 2023 – May 2024

University of Georgia

Athens, Georgia

Worked with Professor John A. Miller on the **ScalaTion Project**, a versatile testbed for Analytics, Simulation, and Optimization.

- Actively contributed to the development of **Regression Trees** to facilitate optimal data splits.
- Implemented the novel feature of **feature bagging** to enhance the versatility of **Random Forests** with **max_features** parameter.
- Performed comparative evaluations against **scikit-learn's** libraries.

Senior Python Developer

July 2021 – Dec 2022

General Electric (GE)

Bangalore, India

"Hawk-i" is an in-house codeless ETL tool that helps businesses load data from various source endpoints to destination endpoints.

- Developed **REST API** functions in **Flask** framework for "Hawk-i", which are used by all 3 lines of business in GE to run more than **500** scheduled ETL's daily in **AWS**.
- Optimized code by implementing **multi-threading** and **lazy loading** techniques to seamlessly integrate various endpoints, resulting in significant reductions in execution time for **Lambda & Fargate** tasks.
- Initiated and implemented the feature of **redeployment** and **custom notification** for various ETL's.

Software Engineer

June 2018 - July 2021

Tata Consultancy Services – New York Life Insurance

Hyderabad, India

OAS/VAS to rPay Migration, aims to decommission a legacy system of NYL and migrate and integrate the data with their existing application.

- Designed and developed Control Reports to test more than **450K policies** and **80,000K** transactions during this data migration using **SSIS** and **Python Automation**.
- Automated data queries and comparisons across **Oracle** and **SQL Server** databases using **linked server** functionality.
- Developed universal packages using **SSIS** to load data into various testing and integration environments.

Suitability, this project is intended to provide valuable information that can assist agents to make appropriate life insurance recommendations to their customers.

- Actively contributed to the development and execution of **automation** test cases with **Orchestrator** tool. These automated test cases streamlined the testing workflow, improved accuracy, and accelerated the policy validation process.
- Contributed to compliance enhancement by rigorously testing and validating policy rules using the Suitability Workbench.

Skills

Languages & Frameworks SQL, Python, ETL, JavaScript, HTML, CSS, Flask, Django

Data management Exploratory Data analysis, Data cleaning, Data Preprocessing, Feature Engineering, Regex

Machine Learning Algorithms Linear, Logistic Regression, Decision Trees, Random Forest, SVM, Clustering Algorithms, Boosting Algorithms

Tools Visual Studio, Toad, DBeaver, Jupyter, IntelliJ, AWS, GitHub, Jenkins, PyCharm, Informatica

Education

Masters of Science in Computer Science

May 2024

University of Georgia, Athens

GPA: 4.00

Graduate Coursework: Adv Distributed System, Adv Information Systems, Data Science, Algorithms, SE, DBMS, CN.

Projects

- Online Bookstore:** Designed and developed an e-commerce website to support filtering, searching, pagination with the help of Django Framework.
Tech: Python, Django, HTML, JS
- House Price Predictions:** Performed thorough data preprocessing using techniques like imputation, one-hot encoding, normalization. Improved predictive models through advanced feature engineering, stacked regression, and ensemble methods.
Tech: Python, ML Algorithms, Jupyter
- Text to SQL generator:** Developed a Text to SQL chatbot using LLM and leveraged Prompt Engineering, Chain of Thought, and Zero-shot Learning techniques.
Tech: Python, Langchain, streamlit