GOWTHAM SIVARAMAN

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EDUCATION

University at Buffalo, The State University of New York — Buffalo, NY
Master of Science in Data Science | GPA: 3.75/4.0 — *Aug 2023 – Dec 2024*

Amrita Vishwa Vidyapeetham — Coimbatore, IND
Bachelor of Technology in Electrical and Electronics Engineering | GPA: 8.25/10.0 — *Jun 2017 – Jun 2021*

TECHNICAL SKILLS AND ADDITIONAL

Languages: Python, Java, R, SQL, NoSQL, PostgreSQL, C, HTML, CSS, JavaScript, MATLAB.
Operating System & Tools: Linux, AWS, GCP, Git, Docker, Jira, Kubernetes, Azure, New Relic, Jenkins.
Technologies: Pega BPM, Excel, Git, Tableau, Power BI, Databricks, VS code.
Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, seaborn, Tensorflow, Keras, NLTK, Streamlit.
Certifications: Microsoft Certified: Azure Fundamentals, Azure Developer Associate, Pega Certified System Architect, Pega Certified Senior System Architect.

EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS — Chennai, IND
Programmer Analyst (Pega Developer) — *Aug 2021 – Jul 2023*

- Engaged on designing, coding, and developing Pega applications for a prominent US bank holding company.
- Implemented and updated various PRPC rules on Pega 8.6 version.
- Led and managed the implementation of portals, modified rules using Live UI, Tracer and Clipboard.
- Integrated Pega Applications with external systems, databases and tested web services using SOAP UI.
- Initiated and led the unit testing with guaranteed quality and zero escalations in the deliveries.
- Diagnosed application problems, rectified code errors to improve efficiency of application by at least 30%.
- Upgraded the pega applications from lower to higher versions by engaging on PRPC V6.x, V7.x, V8.x platforms.
- Collaborated effectively with 3 cross-functional teams, communicated project updates to client, and contributed to the successful completion of 2 projects by fostering a positive team environment.

TRAINITY — Chennai, IND
Data Analytics Intern — *Jun 2021 – Aug 2022*

- Engineered a loan risk prediction model using 5 years of banking data achieving 95% accuracy in identifying potential defaults.
- Analyzed data imbalance, performed EDA, univariate, bivariate analysis, discovered top correlations for different scenarios. Presented complex trends visually using excel pivot and Power BI.

PROJECTS

Netflix Movie and Show Recommender | Tech stack: Python, TF-IDF, Streamlit — *Jan 2024*

- Built a content-based recommendation engine using TF-IDF and cosine similarity, producing an 8000-feature similarity matrix for personalized suggestions of top 25 contents.

Academic Paper Recommender | Tech stack: Python, LDA, NLP, Knowledge Graph, Gensim — *Dec 2023*

- Applied Combined lemmatization, Latent Dirichlet Allocation (LDA), TF-IDF, cosine similarity, and node2vec to develop a recommendation system for academic purposes, leads to a 30% increase in paper downloads.

Market Basket Analysis (Bakery Sales) | Tech stack: Python, Data Analysis, Apriori — *Nov 2023*

- Unveiled a high-potential cross-selling opportunity through advanced analytics, discovering a 2.4% co-occurrence pattern with 70% confidence in customer transactions.

Stock Market Prediction | Tech stack: Python, Prophet, Parallel processing, Streamlit — *Sep 2023*

- Leveraged the Prophet algorithm for time-series forecasting to predict stock prices over a span of 1-5 years.
- Executed ThreadPoolExecutor for asynchronous data retrieval, achieving 60% faster processing.