Devang Vamja

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Experience

Ericsson Inc., Dallas, TX
Network Engineer/Data Scientist *May 2023 – Nov 2024*

- Designed and implemented scalable data pipelines to automate large-scale analyses, reducing preparation time by 30 hours per project.
- Led the development of a random forest classifier for anomaly detection in network data, reducing false positives by 25% and enabling improved operational decision-making.
- Collaborated with cross-functional teams to deploy machine learning models on AWS using Docker and Kubernetes, improving scalability by 30% during peak loads.
- Delivered actionable insights using data visualization tools such as Pandas and Matplotlib, driving operational improvements and enhancing stakeholder decision-making.
- Utilized Hadoop and Hive to process and analyze large-scale data, enabling advanced analytics for operational efficiency.
- Conducted statistical analysis and predictive modeling using R to uncover trends and optimize business processes.

Ericsson Inc., Dallas, TX
Data Science Intern *May 2022 – August 2022*

- Conducted exploratory data analysis (EDA) on large datasets to uncover patterns and root causes in network system anomalies.
- Developed a TensorFlow-based framework for LTE network performance assessment, increasing service availability by 20%.
- Partnered with engineers and product managers to refine machine learning models, improving accuracy and interpretability through team collaboration.
- Leveraged Hive queries to extract and transform structured data, enhancing the quality of EDA and modeling processes.

Education

Master of Science in Computer Science (Specialization in Data Science)
University of Texas at Dallas, Richardson, TX *August 2021 – May 2023*
Cumulative GPA: 3.67/4.0

Bachelor of Engineering in Information and Communication Technology
Gujarat Technological University, Ahmedabad, GJ *August 2017 – July 2021*
Cumulative GPA: 3.62/4.0

Skills

- **Programming Languages:** Python, SQL, R, Java, C++
- **Data Science & Machine Learning:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, NLP (NLTK, Spacy, BERT)
- **Big Data & Cloud:** AWS (S3, EC2), Google Cloud, Docker, Kubernetes, Hadoop, Hive
- **Tools & Frameworks:** Jupyter Notebook, Git, Tableau, Excel, FastAPI, Streamlit
- **Business Intelligence & Analytics:** Expertise in designing and implementing data-driven approaches for decision-making, leveraging statistical methods and BI tools such as Tableau and Excel
- **Leadership & Collaboration:** Proven ability to build strong relationships with cross-functional teams to prioritize customer needs and drive improvements in machine learning pipelines

Projects

Anomaly Detection for Logistics Optimization

- Built a scalable anomaly detection system using Python and Scikit-learn to optimize logistics operations, **achieving a 90% reduction** in operational delays.
- Integrated the solution with Tableau for real-time monitoring and visual reporting.

Transaction Fraud Detection using Neural Networks and Machine Learning

- Developed a fraud detection system with Python, achieving **94% accuracy** using neural networks.
- Conducted data preprocessing and feature engineering with Pandas, enhancing model performance.