Devang Vamja

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Experience

Ericsson Inc., Dallas, TX May 2023 – Nov 2024
Data Scientist

- Led the development of a random forest classifier for anomaly detection in network data, reducing false positives by 25%, enabling improved operational decision-making for the engineering teams.
- Spearheaded the automation of repetitive tasks by engineering scalable data pipelines in Python, reducing model preparation time by 30 hours per project.
- Collaborated with cross-functional teams to deploy machine learning models on AWS using Docker and Kubernetes, achieving a 30% increase in system scalability during peak load times while ensuring robust production reliability.
- Presented actionable insights using data analysis and visualization tools such as Pandas and Matplotlib, improving process efficiencies through team workshops and data-driven discussions.

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

- Conducted exploratory data analysis (EDA) on large datasets to uncover patterns and root causes in network system anomalies, demonstrating proactive problem-solving skills.
- Designed a data analysis framework using TensorFlow for LTE network performance assessment, leading to a 20% increase in service availability and higher user satisfaction.
- Worked closely with engineers and product managers to identify and implement data-driven solutions, improving the interpretability and accuracy of machine learning models through constructive teamwork and strategic feedback.

Skills

- **Programming Languages**: Python, SQL, R, Java, C++.
- **Data Science & Machine Learning**: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, NLP (NLTK, Spacy, BERT), Langchain.
- **Big Data & Cloud**: AWS (S3, EC2), Google Cloud, Docker, Kubernetes.
- **Tools & Frameworks**: Jupyter Notebook, Git, Tableau, Excel, FastAPI, Streamlit.
- **Leadership & Collaboration**: Initiated and led cross-departmental efforts to improve model deployment pipelines and data visualizations. Demonstrated adaptability by effectively engaging diverse stakeholders during high-pressure projects.

Education

Master of Science in Computer Science, Specialization in Data Science May 2023
University of Texas at Dallas, Richardson, TX
Cumulative GPA: 3.67/4.0

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

Projects

Transactions Fraud Detection using Neural Network and Machine Learning May 2020 – June 2020

- Built a real-time fraud detection system using Python and neural networks to classify transactions, achieving 94% accuracy.
- Preprocessed data using Pandas and conducted feature engineering to improve model performance.
- Experimented with TensorFlow for deep learning, using CNNs and DNNs to enhance prediction accuracy.

Customer Churn Prediction with Machine Learning January 2021 – February 2021

- Developed a classification model to predict customer churn using Scikit-learn, reaching an accuracy of 89%.
- Visualized trends and factors contributing to churn, generating actionable insights for customer retention.