Praneeth Boinpally

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EDUCATION

GEORGE MASON UNIVERSITY **Fairfax, VA, USA**
Master of Science in Computer Science Jan 2023 - May 2024
Coursework: Data Analytics, Data Mining, Computer Architecture, Cryptography, Machine learning

SPHOORTHY ENGINEERING COLLEGE **Hyderabad, TS, India**
Bachelor of Technology in Computer Science and Engineering Aug 2018 - Jul 2022
Coursework: Data Structures, Design and Analysis of Algorithms, DevOps, Database Management

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, C++, JavaScript, R, Scala
Data Science & Machine Learning: TensorFlow, PyTorch, scikit-learn, XGBoost, Pandas, NumPy, Data Analysis, Predictive Modeling, Data Visualization
Data Tools & Technologies: Power BI, Tableau, Apache Spark, Elasticsearch, Jupyter Notebook, Matplotlib
Cloud Platforms: AWS, Azure, Google Cloud Platform (GCP)
DevOps & Containers: Docker, Kubernetes, Jenkins
Database Technologies: PostgreSQL, MongoDB, MySQL, Firebase
Other Skills: Project Management, Collaboration, Communication

WORK EXPERIENCE

Data Analyst **Hyderabad, TS, India**
Trycryfly Services limited Oct 2021 - Aug 2022

- Collaborated with a team to develop a real-time internal company chat application, leveraging Socket.IO.
- Analyzed and interpreted complex data sets to provide actionable insights, driving a 20% improvement in business strategy outcomes.
- Collaborated with cross-functional teams to optimize data collection processes and enhance data quality, resulting in a 15% increase in data integrity.
- Utilized SQL and Python for data extraction, transformation, and analysis, achieving a 95% improvement in data accuracy.
- Prepared comprehensive reports and visualizations using Power BI, effectively communicating findings to stakeholders, leading to a 25% increase in decision-making efficiency.

PROJECTS

Data Tool Kit **Python, Flask, React, Chart.js, Pandas, Axios, GitHub, Docker**

- Engineered a comprehensive web application to streamline data cleaning and visualization processes, enhancing analysis efficiency by 40%. Utilized Flask for the backend and React for the frontend.
- Integrated various data manipulation tools, including Pandas and Chart.js, to provide users with powerful and customizable visualization capabilities, significantly improving decision-making.

Network Intrusion Detection Using Machine Learning Techniques **XGBoost, scikit-learn, Elasticsearch, NSL-KDD**

- Designed an advanced system for detecting and analyzing network intrusions with a 98% accuracy rate, employing machine learning techniques and leveraging Elasticsearch for efficient log indexing.
- Accelerated anomaly detection by 30% through optimized processing and created visualizations to help identify intrusion patterns, enhancing network security.

Driver Drowsiness Detection Using Machine Learning **Python, OpenCV, TensorFlow, Keras**

- Conceived a real-time monitoring system to detect driver drowsiness, achieving 95% accuracy by analyzing eye movements using machine learning algorithms. Preprocessed webcam data, resulting in a 20% boost in model accuracy
- Implemented advanced techniques with TensorFlow and OpenCV to reduce false positives by 15%, ensuring reliable detection and improving road safety.

Productivity Assistant Chatbot **AI Flask, Python, NLTK, SpaCy, HTML, CSS, JavaScript, Machine Learning**

- Built an interactive chatbot using Flask and Python for task management, incorporating NLP with NLTK and SpaCy to enhance user interaction, boosting response accuracy by 35%.
- Designed a responsive user interface with HTML, CSS, and JavaScript, and implemented continuous learning features to adapt the bot's responses, improving task automation efficiency by 40%.

Claim Safe | Auto Insurance Premium Recommendation System **Python, Data Visualization, Apache Kafka, PostgreSQL**

- Developed a system to recommend auto insurance premiums, improving pricing accuracy by 20% through comprehensive data analysis.
- Built predictive models and visualized risk assessments, reducing claim costs by 15% and enhancing decision-making.

CERTIFICATIONS

AWS Academy Cloud Foundations Badge