

Praneeth Boinpally

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EDUCATION

GEORGE MASON UNIVERSITY

Master of Science in Computer Science

Coursework: Info Security Theory/Practice, Data Mining, Secure Software Design/Programming (SWE 681), Cryptography, Machine learning

Fairfax, VA, USA

Jan 2023 - May 2024

SPHOORTHY ENGINEERING COLLEGE

Bachelor of Technology in Computer Science and Engineering

Coursework: Data Structures, Design and Analysis of Algorithms, DevOps, Database Management

Hyderabad, TS, India

Aug 2018 - Jul 2022

TECHNICAL SKILLS

Big Data & Data Pipelines: Databricks, Apache Spark, Kafka, GCP, Azure, AWS

Programming & Querying: SQL, Python, Java, Scala, JavaScript, R

Databases: PostgreSQL, MySQL, MongoDB, Firebase

Data Processing & Analysis: Data Cleansing, Transformation, Metadata Management, Unstructured Data Analysis, Predictive Modeling, TensorFlow, PyTorch

Data Engineering: Data Pipelines, ETL, Data Integration, Cloud-based Analytics Platforms (DAP)

DevOps & Cloud Platforms: Docker, Kubernetes, Jenkins, CI/CD

Tools: Power BI, Pandas, NumPy, XGBoost

Project Management & Collaboration: Agile, Scrum, JIRA, Git

WORK EXPERIENCE

Data Engineer

Trycryfly Services limited

Hyderabad, TS, India

Oct 2020 – Oct 2022

- Design and optimize cloud-based data pipelines on Databricks and SQL for a 30% efficiency improvement in data processing.
- Designed scalable data architectures on Azure and GCP to support data transformation and integrations.
- Performed root cause analysis, optimized data workflows, improved performance and quality of data by 25%.
- Automated metadata management and data transformation processes developed, which increased accuracy and coherence within the system.
- Collaborated with cross-functional teams on the integration of huge datasets and their processing, thereby unlocking key consumer insights to inform strategic decisions.

PROJECTS

Data Tool Kit

Python, Flask, React, Chart.js, Pandas, Axios, GitHub, Docker

- Developed a web application to automate data cleaning and visualization processes, improving analysis efficiency by 40%.
- Integrated customized data testing tools to ensure accuracy in data visualization and processing, ensuring a robust system.

Network Intrusion Detection Using Machine Learning Techniques

XGBoost, scikit-learn, Elasticsearch, NSL-KDD

- Created a system for network intrusion detection with a 98% accuracy rate, using machine learning models and test automation for anomaly detection.
- Optimized the system for performance, reducing processing time by 30%, and provided detailed test reports on system behavior.

Global Consumer Relations Data Hub

Azure, Databricks, SQL

- Developed a scalable data pipeline to integrate disconnected consumer datasets, enabling real-time data analysis and insights.
- Optimized data transformation processes, improving data exchange between GCR and internal systems by 40%.

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