SAI VENKATA ADITHYA CHALLA

Los Angeles, CA, 90007

📞 +1-213-477-9905 ✉ challas@usc.edu 🔗 https://linkedin.com/in/adithyachalla 🌐 https://adithyachalla12.github.io/Resume

EDUCATION

University of Southern California, Viterbi School of Engineering   **Aug 2024 - May 2026**
Master's, Computer Science (Data Science) (GPA: 3.67/4)
- **Coursework:** Analysis of Algorithms, Database Systems,Information Retrieval,Machine Learning for Data Science

GITAM University, School of Technology   **Jun 2019 - Apr 2023**
Bachelor of Technology, Computer Science (GPA: 9.15/10)
- **Coursework:** Neural Networks and Deep Learning,Object Oriented Programming, BigData, Data Warehouse and Mining, Probability and Statistics

TECHNICAL SKILLS

- **Programming Languages**: C, Java, Python, R, HTML, CSS, JavaScript, KQL, Microsoft Azure, React, Node.js
- **Databases**: MySQL, MS SQL Server, PostgreSQL, Big Query
- **Data Analysis & Visualization**: Numpy, Pandas, Matplotlib, Seaborn, Power BI, Excel, Power Automate, Tableau
- **ML/AI Frameworks**: Scikit-learn, TensorFlow, Keras, PyTorch, NLTK, Beautiful Soup, Flask, OpenCV

EXPERIENCE

MAQ Software | *Software Engineer*   **Aug 2023 - Jun 2024**
- Developed a Microsoft Power BI report to track customer-related issues, reducing resolution time significantly, from 1-2 weeks to 2-3 days, by identifying and categorizing over 500+ issues and implementing a solution through Power Automate integration.
- Optimized data pipelines and ETL processes, improving data processing speed and set up staging tables that enhanced data integration and transformation within the Azure ecosystem.
- Developed reusable React components to enhance front-end modularity and maintainability, improving UI consistency and development efficiency.
- Utilized Kusto Query Language (KQL) to efficiently work with complex queries, create required fields, and retrieve relevant data. Played a key role in troubleshooting solutions by analyzing and leveraging stored data in Kusto.

Future Ready Talent | *Intern*   **Dec 2021 - Jan 2022**
- Gained hands-on experience with various Microsoft Azure services specializing in Azure Cognitive Services.
- Worked on analysing facial attributes and implemented facial recognition using the Azure Cognitive Service using Python.

The Sparks Foundation | *Data Science Intern*   **Jul 2021 - Aug 2021**
- Conducted KPI-driven exploratory data analysis and visualization using Python, analyzing various attributes to uncover key performance trends.
- Managed data cleaning with Power Query, handling datasets with 50,000+ records, and created various pivot tables in Excel to summarize and extract actionable insights.

PROJECTS

Credit Card Fraud Detection
- Analyzed and preprocessed the credit card fraud dataset, removing redundant columns and addressing class imbalance using SMOTE.
- Predicted fraudulent vs non-fraudulent transactions using various ML models, achieving 95% accuracy with Random Forest.

Men's T20 World Cup Data Analysis
- Cleaned and transformed the Men's T20 World Cup dataset using Power BI, and analyzed patterns with Python (Matplotlib, Seaborn).
- Predicted match outcomes using Random Forest and XGBoost, considering home conditions and toss prediction.

Hybrid Intrusion Detection System
- Applied a correlation-based feature selection algorithm to enhance accuracy in identifying potential attack classes within the dataset.
- Concurrently trained and evaluated the performance using Recurrent Neural Network (RNN) model, and compared them with the machine learning classifiers to achieve better performance.

Text Prediction using DL
- Implemented LSTM-based text prediction using TensorFlow and Keras.
- Trained the model using categorical crossentropy loss and optimized with Adam optimizer.
- Processed and tokenized textual data for sequence modeling.

CERTIFICATIONS

- Microsoft Azure Fundamentals Certification
- Microsoft Fabric Analytics Certification