UMAESHWER SHANKAR

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EDUCATION

University of Southern California   Los Angeles, CA, USA
Master of Science in Applied Data Science   August 2025-Present
Relevant Courses: Introduction to Computational Thinking and Data Science, Data Science at Scale

Indian Institute of Technology Tirupati   Tirupati, AP, IN
Bachelor of Technology in Electrical Engineering (GPA: 8.99/10 == 3.85/4.0)   July 2018-June 2022
Relevant Courses: Calculus, Linear Algebra, Probability and Statistics, Machine Learning for Image Processing, Computer Vision, Information Theory and Coding

EXPERIENCE

Tiger Analytics   Chennai, TN, IN
Machine Learning Engineer   January 2025-June 2025
- Developed Azure MLOps pipelines for a Fortune 500 company's retail demand forecasting system, decreasing deployment time by 40% and enabling sales representatives to cover 10x more stores in a day
- Scaled a promotion analysis and rewards system for a Fortune 500 company in the EU region to support multiple markets using Databricks, Azure Data Factory and Event Grid
- Identified gaps in existing code and led cross-functionally across teams to increase solution efficacy by 20%

Tiger Analytics   Chennai, TN, IN
Senior Analyst, Machine Learning Engineering   June 2023-January 2025
- Migrated data to cloud-native environment and automated data analysis for a Fortune 500 semiconductor manufacturing client, using Databricks, Azure Blob Storage and Apache Superset, reducing analysis time by 80%
- Collaborated closely with floor engineers to understand day-to-day requirements and enabled custom data retrieval and analysis without intervention, increasing individual productivity by 30%
- Productionized data analysis and real-time sales estimate dashboards for a CPG client across multiple markets in the MEA and EU regions, improving redundancy for business teams by 20%
- Reduced operational costs by 30% for a CPG client by migrating live sales and promotion analysis systems to a custom data engineering framework built on PySpark and SQL

Tiger Analytics   Chennai, TN, IN
Analyst, Machine Learning Engineering   June 2022-June 2023
- Set up MLOps infrastructure leveraging Azure DevOps, Azure Data Factory and SonarQube for the global sales effectiveness team of a CPG client, reducing time-to-market by 50%

SKILLS

- Programming & ML: Python, SQL, Bash, TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas, Matplotlib, Plotly
- Big Data & Cloud: PySpark, Databricks, Azure (Data Factory, MLOps, Pipelines, Blob Storage, Logic Apps, Event Grid)
- MLOps: CI/CD (Azure DevOps, SonarQube), MLFlow, Docker
- Intangible Skills: Communication, Personal Leadership, Time Management, Problem-Solving, Adaptability

PROJECTS

RADAR-based Face Recognition using Deep Neural Networks   July 2021-November 2021
- Collaborated with researchers from University of Agden on improving accuracy of 60 GHz mmWave RADAR-based face recognition systems
- Separated magnitude and phase information from Channel Impulse Response plots in a novel initiative, removed redundant features by 50% and developed Deep Convolutional Neural Network models for analysis
- Achieved an accuracy of 90% on magnitude analysis and 85% on phase analysis outperforming the autoencoder methods used in previous work

ACHIEVEMENTS

- Ranked in the top 0.5% of 150,000 candidates in the Joint Entrance Examination (2018) for admission to the IITs
- National Talent Search Scholarship (2016) - Awarded by NCERT under the Ministry of HRD, Govt. of India