KEERTHI MALATHKAR

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Skills

Programming: Python, R, SQL, HTML, CSS, JavaScript, Data Structures
Data Visualization: Tableau, Power BI, Excel, Looker Studio
Machine Learning Libraries: Scikit-learn, NumPy, Pandas, Keras, Matplotlib, Seaborn, Simple RNN, PyTorch, PySpark, LLMs, LSTM, CNN, TensorFlow, Computer Vision, NLP
Modeling: Linear Regression, ANOVA, Logistic regression, Decision trees, Random Forest, Statistics
Other Tools: Google Cloud Platform, Linux, Anaplan, Microsoft Office (Word, Excel, Outlook, and PowerPoint), Power Automate, SAS, Apache Spark, Hadoop, IBM BAW, Docker, Jenkins, Kubernetes, Ansible, Git, Rapid Miner, Power Apps, Power Automate, Azure, Lightcast, Salesforce, PostgreSQL, AWS, ETL, MongoDB, Snowflake, Big Query, Google Vertex
Core Skills: Active listening, Assertiveness, Agile Methodology, Conflict management, Empathy, Collaborative, Restorative, Learner, Intellection, Connectedness, Shift Lead, Business Intelligence
Domain Skills: Banking, Finance, Supply chain, Market Research, Data Warehouse, Data Mining
Project Management Tools: Jira, Kanban, ClickUp

Academic Projects

Operating Budget of Dallas: Utilized **Tableau** to comprehensively visualize the Dallas city operating budget, transforming raw data with Tableau Prep Builder. Analyzed results revealed the **Water Utility Department** as having the highest expenses incurred during the financial year **2022**.
Seoul Bike Riding Demand Prediction: Analyzed Seoul's bike demand through advanced modeling techniques including **Linear Regression, Decision Tree**, and **Random Forest**, achieving a **0.92** accuracy score with **Random Forest**, optimizing bike distribution, and boosting operational efficiency by **30%**.
Image Classification Model: Designed a convolutional neural network on the CIFAR-10(Canadian Institute For Advanced Research) dataset using the **TensorFlow** AI framework and **Python**, achieving a model accuracy of **71.67%** at **5000 epochs**.
Apple Stock Price Prediction: Achieved a **15%** increase in stock price forecasting accuracy by developing an **LSTM** (Long Short-Term Memory Recurrent Neural Network) model using the **Keras Sequential library**.
Sentiment Analysis for Customer Feedback: Successfully identified key sentiment drivers, enhancing the company's understanding of customer satisfaction and areas for improvement using **NLTK**. Achieved an accuracy of **85%** in classifying customer feedback into positive, negative, and neutral sentiments.

Work Experience

Market Research Student Assistant at University of North Texas **03/2024 – Present**

- Generate and analyze 10 detailed reports, queries, and datasets, and organize and format the data for input into the PHOI tool built by UNT DSI-Digital Growth.
- Collaborated with the marketing team to update over 100 program details on the university career page, improving site accuracy and user engagement by 20% using Drupal.
- Developed a Power BI dashboard using data from Lightcast, Salesforce, and Insights 2.0, revealing market trends that improved the university marketing team's strategy decisions by 15%.

Capital Planning Student Assistant at University of North Texas **06/2023 – 02/2024**

- Developed an application using Power Apps for data collection to assist Facilities inspectors during site inspections, reducing manual work by 30%.
- Delivered business insights using the Power BI dashboard, enhancing decision-making by 25%.

DevOps Engineer at Tata Consultancy Services **01/2019 - 12/2022**

- Automated administration and configuration tasks on Apache HTTPD, JBoss, and WebLogic application servers using Jenkins CI/CD pipeline and Ansible for more than 50 applications.
- Upgraded and configured over 100 middleware applications, including JBoss, WebLogic, and Apache HTTPD, on 200+ Linux servers, resulting in a 30% improvement in system performance and stability.
- As a shift lead, accomplished a 20% increase in operational efficiency by implementing optimized scheduling strategies and conducting proactive team performance monitoring.
- Implemented the migration of IBM BAW (Business Automation Workflow) from version 19.0.0.2 to the 22.0.1 version across UAT, Development, and Production environments, resulting in a 25% improvement in work efficiency.

Education

University of North Texas **01/2023–12/2024**
Master’s in Advanced Data Analytics **GPA: 4.0/4.0**

Activities and Honors

Certified Google Associate Cloud Engineer (02/2022 - 02/2025)
Excellence Award (11/2023) - University of North Texas
Best Team Award (05/2022) - Tata Consultancy Services
Introduction to Generative AI and LLM
Professional Data Engineer Certification