KEERTHI MALATHKAR

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Education

University of North Texas, Denton, TX   **01/2023–12/2024**

Master's in Advanced Data Analytics (**GPA: 4.0/4.0) Coursework:** Data Analytics I, Harvesting, Storing and Retrieving Data, Discovery and Learning with Big Data, Data Analytics II, Large Data Visualization, Recurrent Neural Network, Deep Learning with Big Data, Agile for Analytics

Skills

- **Programming:** Python, R, SQL, HTML, CSS, JavaScript, Data Structures
- **Data Visualization:** Tableau, Power BI, Excel, Looker Studio
- **ML Libraries:** Scikit-learn, NumPy, Pandas, Keras, Matplotlib, Seaborn, Simple RNN, PyTorch, PySpark, LLMs, LSTM, CNN, TensorFlow
- **Modeling:** Linear Regression, ANOVA, Logistic regression, Decision trees, Random Forest
- **Other Tools:** Google Cloud Platform, Linux, Anaplan, Office365, Power Automate, SAS, Apache Spark, Hadoop, IBM BAW, Docker, Jenkins, Kubernetes, Ansible, Git, Rapid Miner, Power Apps, Power Automate, Azure, Lightcast, Salesforce, PostgreSQL, Amazon, AWS
- **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

Work Experience

Market Research Student Assistant at University of North Texas- TX, USA   **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, Denton-TX, USA   **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%.
- Prepared detailed analysis commentary and presentation materials for the department, leveraging facilities-specific databases and MS Office Suite, resulting in a 25% improvement in report accuracy.
- Delivered business insights using the Power BI dashboard, enhancing decision-making by 25%.

System Engineer at Tata Consultancy Services   **01/2019 - 12/2022**
- Automated administration and configuration tasks on Apache HTTPD, JBoss, and WebLogic application servers using Jenkins 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.

Academic Projects

- **Operating Budget of Dallas:** Utilized Tableau for comprehensive visualization of 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:** Performed demand prediction for bikes in Seoul city using Linear Regression, Decision Tree, and Random Forest Regressor. Identified Random Forest Regressor as the best model with an accuracy score of **0.92**.
- **King County Housing sales prediction:** Predicted housing sales in Seattle using R programming language. Analyzed data with Linear Regression, resulting in a score of 0.6948.
- **CIFAR-10:** Designed a convolutional neural network on the CIFAR-10 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.

Activities and Honors

- Excellence Award (11/2023) - University of North Texas
- Best Team Award (05/2022) - Tata Consultancy Services
- Certified Google Associate Cloud Engineer