Chandan Rudrappa

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Summary

Data Science graduate seeking full-time opportunities with experience building end-to-end ML solutions, including data preprocessing, modeling, and deployment. Skilled in Python, Transformers, and big-data tools, with a track record of delivering **high-accuracy models** and reducing manual workflows by **50%**.

Experience

Research Assistant, *University of Texas at Arlington*   Jul 2025 – Present

– Developed a Streamlit application that ingests waiver documents in Excel format and automatically highlights content discrepancies, reducing manual review time by **50%** and improving validation accuracy.

– Built and deployed TextCNN and Transformer-based classifiers to categorize document context into **20+ tag categories** significantly speeding up downstream document processing.

Graduate Math Tutor - Statistics, *University of Texas at Arlingto*n   Jan 2025 – May 2025

– Tutored **100+** undergraduate students in Statistics, Probability, and Calculus I–III across two tutoring centers, improving student performance by an average of **20%**.

– Cleaned, transformed, and validated real-world community datasets, increasing data usability and enabling students to perform meaningful statistical analyses.

– Guided students on research methodology, hypothesis testing, and statistical interpretation, helping translate community-driven questions into actionable insights.

Junior Data Scientist, *Analyttica Datalab Pvt. Ltd., Bengaluru*   May 2022 – Jul 2023

– Designed and developed **150+** reusable data science functions for the LEAPS analytics platform, enabling faster implementation of data visualization, data management, and time series analysis workflows.

– Upgraded **80+** static matplotlib visualizations into interactive Plotly dashboards, increasing user engagement and reducing dashboard creation time by **25%**.

– Involved in building a recommendation engine to enhance the LEAPS user journey by providing personalized data science problem suggestions, improving platform retention by **15%**.

– Authored **60+** Jupyter notebooks for applied data science case studies, helping users learn key ML concepts through hands-on experimentation.

– Led client open house sessions for Siemens and Aditya Birla Group, presenting classification and regression analyses to groups of up to **30 participants**, strengthening client engagement and understanding.

Technical Skills

Languages & Data Analytics: Python, C, C++, R, pandas, numpy, scikit-learn, matplotlib, plotly

AI/ML & Big Data: Tensorflow, PyTorch, OpenCV, Keras, Hadoop, Spark

CI/CD & Version Control: Jenkins, Docker, Kubernetes, Git, Bitbucket

Databases: MySQL, SQLite DB Browser

Projects

Scot Forge Data Analysis Project - Impact of Temper on Tensile Tests   Jan 2025 – Apr 2025

Selected from 40+ teams to work with Scot Forge on a predictive modeling project. Conducted EDA, hypothesis testing, and data preprocessing, including feature engineering and scaling. Built a classification model to predict process results, achieving **98.82%** accuracy after resampling, identifying key predictive features

Maverick Rover Team - University Rover Challenge   Jun 2024 - Apr 2025

Worked on ArUco marker detection and LiDAR-based object detection. Integrated ZED SDK and configured vision processing on the NVIDIA Jetson TX2. Flashed the Jetson and installed the latest JetPack SDK for optimized deployment

Education

Master's in Data science, *The University of Texas at Arlington **GPA: 4.0***   Aug 2023 - May 2025
Coursework: Neural Networks, Computer Vision, Big Data, Probability & Statistics

Bachelor's in ECE, *Ramaiah Institute of Technology, Bangalore,*   Aug 2018 - May 2022
Coursework: Introduction to ML/DL, Data structures using C++, Cryptography, IoT