KUDIKALA ARUN KUMAR

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Professional Summary

Data Science professional with 1+ years of experience in delivering data-driven solutions using Python, SQL, and Power BI. Proficient in building ML models with 90%+ accuracy and creating dynamic dashboards for strategic insights. Certified in Data Science and Analytics, with a strong focus on turning complex data into actionable results.

COURSEWORK / SKILLS

- SQL (SQL Server, MySQL, PostgreSQL)
- Python (Pandas, NumPy, SciPy, MatPlotLib)
- Tableau
- Excel (VLookup, Conditional Formatting, Pivot Tables)
- Microsoft Azure (DataBricks, Azure Data Lake, Azure Data Warehouse)
- PySpark
- Microsoft Power BI

EXPERIENCE

Zidio Development

Role - Data Science Intern

August 2024 - Present

Remote

- Skills utilized: Machine Learning, Data Preprocessing, Feature Engineering, Model Evaluation, Python (NumPy, Pandas, Scikit-learn, TensorFlow), Deep Learning (CNN, RNN), Data Visualization.
- Speech Emotion Recognition: Contributed to a model that classifies emotions from speech using features like MFCC, pitch, and energy. Utilized SVM, RNN, and CNN for training, improving accuracy through hyperparameter optimization and deploying the model in real-time applications.
- Digit Recognition: Assisted in creating a system for recognizing handwritten digits from MNIST using feature extraction techniques (pixel intensity, HOG) and trained models (CNN, SVM), achieving high accuracy in digit classification.

CAMP Systems Private Limited

Role - Associate Analyst Intern

March 2024 - July 2024

Hyderabad, Telangana

- Managed and updated **over 100 aircraft maintenance reports** monthly using CAMP's web-based application and Excel, ensuring accuracy and compliance with OEM standards.
- Delivered **customized data solutions** to meet customer specifications, achieving **98% on-time delivery** and supporting the company's high standards for data integrity.
- Collaborated with expert analysts to enhance data accuracy, contributing to 5% resale price premium on CAMP-compliant aircraft through meticulous maintenance data tracking and analysis.

PROJECTS

Handwritten Digit Recognition 🗷 | Python, ML, Model Evaluation, Dataset Handling

2024

- Developed a web-based application for real-time handwritten digit recognition using a CNN architecture, achieving over 98% accuracy on the MNIST dataset.
- Integrated **Keras and TensorFlow.js** to enable model deployment on a web interface, supporting live user interaction for digit input and recognition.
- Optimized training efficiency by leveraging GPU acceleration, reducing model training time by 30% compared to baseline implementations.

Speech Emotion Recognition System 🗗 | Python, ML, Model Evaluation, Dataset Handling

2024

- Developed a machine learning pipeline: Implemented a system to classify emotions from speech data using MFCC feature extraction, Label Encoding, and an SVM classifier with 80%-20% train-test split.
- Dataset Handling: Utilized the **Toronto Emotional Speech Set (TESS)**, automating dataset download and preprocessing with **Python libraries like librosa**, scikit-learn, and kagglehub.
- Achieved High Performance: Achieved 90%+ classification accuracy on test data; optimized the model with hyperparameter tuning and saved it for deployment in real-world applications.

Tata Data Visualisation: Empowering Business with Effective Insights 🗷 | 2024

- Designed 4 dynamic, data-driven dashboards using Power BI/Tableau, providing actionable insights to the CEO and CMO for key decision-making on revenue trends, top customers, and regional demand.
- Conducted a thorough data cleanup process—including error checks on unit pricing and quantity—to ensure 100% accuracy in the analysis, leading to error-free, reliable visuals.
- Created a **5-minute video presentation** for leadership, delivering strategic insights with clarity, supporting informed decision-making, and showcasing the company's revenue potential across high-demand regions.

EDUCATION

Institute of Aeronautical Engineering, Hyderabad

2020 - 2023

B. Tech - Aeronautical Engineering

Dundigal, Hyderabad

Govt. Polytechnic Parkal

2017 - 2020

 $Diploma\hbox{--} Mechanical\ Engineering$

Parkal, Warangal

CERTIFICATIONS

- Introduction to Data Science, Data Analytics Essentials, Python Essentials Cisco Networking Academy
- Data Visualization With Power BI, Data Analysis using Excel Great Learning Academy
- CAMP Systems Private Limited, Tata Data Visualisation, PWC PowerBI Intern