Vikas Kushwaha

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Professional Experience

Kimbal 🔗   October 2024 – April 2025 | New Delhi
Technical Analyst

- Worked on Advanced Metering Infrastructure (AMI) projects using HES, DMS, MDMS, Excel, Power BI, and QGIS. supporting end-to-end metering operations.
- Analyzed smart meter data (voltage, current, power factor, energy usage, tamper events) to drive actionable insights and SLA improvements.
- Executed RF Gateway performance by tuning key parameters (RSSI, LQI, hop count, packet loss rate) for enhanced network reliability, enabling successful deployment and connection of 20,000+ smart meters to the network.
- Collaborated across engineering and field teams to ensure efficient system integration and continuous operational excellence.

Education

Maharaja Surajmal Institute, GGSIPU   2021 – 2024 | New Delhi
BCA (Hons.), CGPA 9.3

MCL Saraswati Bal Mandir   2013 – 2020 | New Delhi
Class 12 (2020 - CBSE), 80%
Class 10 (2018 - CBSE), 78%

Projects

Recipe Recommender using ML 🔗
Created a Recipe Recommender mobile app using a dataset from Kaggle.

- Performed data preprocessing (handling missing values, one-hot encoding, imputation, feature scaling) and conducted exploratory data analysis (EDA) with graphical insights.
- Built and evaluated machine learning models (regression, ensemble learning) using standard model evaluation metrics.
- Developed a Flutter front-end application integrated with a TF-IDF model for real-time ML predictions.
- Deployed machine learning model and dependencies (app.py, vectorizer) on Render.com Cloud for full-stack deployment and integration.
- Technologies Used: Flutter, Android Studio, Python, Pandas, Numpy, Flask, Scikit learn.

Computer Vision : Digit Recognition using Keras 🔗
Made a deep-learning model using Keras to recognize digits.

- Prepared and enhanced data by loading, formatting, and preprocessing to ensure model readiness.
- Designed and implemented a neural network architecture with key layers, activation functions, and optimization techniques.
- Trained the model on 100k parameters with a dataset of 1,500 samples over 25 epochs.
- Achieved a model accuracy of approximately 90–92% through careful tuning and evaluation.
- Technologies Used: Python, Tensorflow, Keras, Numpy, Matplotlib.

Technical Skills

Languages
Python, C/C++, Java, MySQL, PHP.

Technologies/Tools
Machine Learning, Computer Vision, AWS, MongoDB, Anaconda, Scikit Learn, Numpy, Pandas, Matplotlib, Seaborn, Power BI, Tableau.

Certifications

- Microsoft - Machine Learning Challenge (2023)
- NPTEL - Advanced Distributed Systems (2023)
- MongoDB - Extended Basics (2023)
- Automation Anywhere - Robotic Process Automation (2023)
- NPTEL - Business Intelligence and Analytics (2024)
- Microsoft - AI Builder Challenge (2023)
- MathWorks - Computer Vision Onramp (2023)
- Automation Anywhere - Automation360 (2023)
- Honeywell ICT - AWS Training (2023)
- NPTEL - Privacy and Security in Online Social Media (2024)