

MuhammedNihal KP

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Professional Summary

Motivated AI/ML Engineering fresher with hands-on experience in Python programming, data analysis, and machine learning fundamentals. Skilled in using NumPy, Pandas, Matplotlib, and Seaborn for data manipulation and visualization, along with MySQL for structured data management. Experienced in building and evaluating predictive models using Scikit-learn, with a strong focus on clean code, logical workflows, and real-world problem-solving.

Education

JCT College of Engineering and Technology

Bachelor of Technology, CGPA 7.3

Anna University

2021–2025

G.H.S.S Thottada

Higher Secondary Education (XII), 63%

DHSE Kerala

2021

C.H.M.H.S.S Elayavoor

Secondary School Leaving Certificate (X), 73%

DHSE Kerala

2019

Technical Skills

- **Languages:** Python, SQL (MySQL)
- **Data Science & ML Libraries:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
- **Web Frameworks & Tools:** Streamlit, Django, Jupyter Notebooks
- **Developer Tools:** Git, GitHub, Visual Studio Code
- **General:** MS Word, PowerPoint, Excel, Power BI

Projects

Phishing Website Detection with Real-Time Notification

- Integrated a real-time notification system to automatically report phishing attempts to the cybersecurity team.
- Reduced false positives by implementing and evaluating ensemble Machine Learning models, including Logistic Regression, XGBoost, CatBoost, and MLP.
- Optimized model performance to ensure accurate threat detection and reporting

Weather Forecasting Application

- Developed an interactive weather forecasting dashboard using Streamlit
- Integrated the Open-Meteo API to fetch real-time meteorological data and leveraged OpenAI for natural language generation to provide weather insights
- Implemented functionality allowing users to input geographic coordinates (latitude and longitude) to retrieve accurate hourly temperature forecasts for the next 24 hours.

Note Sharing Application Using Django

- Built a secure web application using Python and Django that facilitates note-sharing between students and teachers.
- Implemented user authentication and file handling features to allow users to upload, view, and share educational resources efficiently

Certifications

Luminar Technolab - Python Data Science, AI/ML & Power BI

IBM - Introduction to Data Science

IBM - Python for Data Science

Languages

English , Hindi , Malayalam , Tamil