Muhammed Nihal KP

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PROFESSIONAL SUMMARY

Computer Science and Business Systems graduate with internship experience in Data Science and Machine Learning. Proficient in Python, SQL, exploratory data analysis (EDA), feature engineering, supervised learning, and natural language processing (NLP). Experienced in building, evaluating, and optimizing machine learning models using scikit-learn and XGBoost. Seeking an entry-level Data Scientist or Machine Learning Engineer role.

TECHNICAL SKILLS

Programming Languages	Python, SQL
Data Analysis	Pandas, NumPy, Matplotlib, Seaborn, Exploratory Data Analysis (EDA)
Machine Learning	Supervised Learning, Regression, Classification, XGBoost, Scikit-learn
Natural Language Processing	Text Preprocessing, TF-IDF, Cosine Similarity
Databases	MySQL
Tools	Git, GitHub, Jupyter Notebook, API Integration, MS Office

WORK EXPERIENCE

Data Science Intern — Luminar Technolab   *July 2025 – Present*

- Performed data cleaning, preprocessing, and exploratory data analysis using Python, Pandas, and NumPy.
- Developed and evaluated machine learning models for classification and regression tasks using scikit-learn.
- Applied feature engineering and hyperparameter tuning techniques to improve model performance.
- Implemented ensemble learning techniques, including XGBoost.
- Applied natural language processing techniques such as text preprocessing and TF-IDF vectorization.
- Used SQL queries to extract, transform, and analyze structured datasets.

PROJECTS

- **Phishing Website Detection Using Machine Learning and Real-Time Notifications** Developed a machine learning-based classification system using URL and content-based features with automated real-time email notifications.
- **Lung Cancer Detection** Developed a supervised learning model for lung cancer prediction using clinical data, focusing on preprocessing, feature selection, and evaluation.
- **Movie Recommendation System Using Natural Language Processing** Implemented a content-based recommendation system using TF-IDF and cosine similarity on textual metadata.
- **Weather Forecasting Using API** Developed a Python application that retrieves real-time weather data from public APIs, processes JSON responses, and displays forecast results.

PUBLICATIONS

- **Phishing Website Detection Using Machine Learning and Real-Time Notifications** Published in the *IEEE Xplore Digital Library*, Proceedings of the **International Conference on Self-Sustainable Artificial Intelligence Systems (ICSSAS 2025)**, M. P. Nachimuthu M. Jaganathan Engineering College, Chennimalai, Erode, India.

CERTIFICATIONS

- Python for Data Science — IBM
- Introduction to Data Science — IBM

EDUCATION

B.Tech in Computer Science and Business Systems   *2021 – 2025*
JCT College of Engineering and Technology, Coimbatore
Anna University, Chennai

LANGUAGES

Malayalam, English, Tamil, Hindi