NIHAL MUHAMMED KP

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Kerala, India

PROFESSIONAL SUMMARY

Detail-oriented and performance-driven Data Science Intern with hands-on experience in data analysis, machine learning, and data visualization. Proficient in Python, Pandas, NumPy, Scikit-learn, and visualization libraries like Matplotlib and Seaborn. Skilled in applying ML algorithms for classification, clustering, and prediction tasks, with a strong foundation in statistical analysis, model evaluation, and NLP. Experienced in data cleaning, EDA, and full ML lifecycle. Proficient in SQL and modern BI tools for insight delivery. A fast learner with strong problem-solving and communication skills, passionate about data-driven decision-making.

TECHNICAL SKILLS

Languages: Python, R, Scala, SQL

Libraries & Packages: Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib

Databases: SQL, MongoDB

Visualization Tools: Tableau, Power BI

ML Techniques: Regression, Classification, Clustering, Time Series Forecasting, Predictive Modeling, NLP, Model Evaluation, Statistical Analysis, EDA, Data Cleaning

Tools & Frameworks: Flask, OpenCV, Firebase, dlib, Google Workspace, MS Office

Big Data & Cloud: Hadoop (Basics)

PROFESSIONAL EXPERIENCE

Data Science Intern   July 2024 – Present
Quest Innovative Solutions   *Kerala, India*

- Conducted EDA on large datasets to uncover trends and support business decisions.
- Boosted ML model performance by 15% using GridSearchCV and cross-validation.
- Automated ETL pipelines in Python, reducing manual effort by 20%.
- Performed clustering and time-series forecasting for optimization insights.
- Designed interactive dashboards and reports for stakeholders.

PROJECTS

AI Resume Screening & Fairness Analyzer   2025

- Built a web tool using Flask and spaCy to evaluate ATS scores of resumes against job descriptions using NLP.
- Implemented bias detection to flag gender/age-sensitive terms for ethical hiring.
- Applied text preprocessing and token matching to extract resume features.
- Designed a responsive frontend using HTML, CSS, and conditional animations.

Water Potability Prediction Using ML   2025

- Performed EDA and feature engineering on water quality dataset.
- Trained classification models (Logistic Regression, Random Forest) achieving 87% accuracy.
- Used scaling, feature selection, and imbalance handling to improve performance.
- Presented actionable insights on factors impacting water safety.

Responsive Personal Portfolio Website   2025

    Developed a personal portfolio using HTML, Tailwind CSS, and JavaScript.

    Used modern UI/UX design for optimal performance across devices.

    Added smooth scrolling and interactivity for enhanced user experience.

Facial Recognition-Based ATM System   May 2024

    Implemented CNN/DCNN for secure facial authentication in ATM prototype.

    Used Flask and MongoDB to handle back-end logic and reduce latency.

    Enhanced security via real-time user verification and tracking.

AI-Based Attendance Management System (AIMS)   June 2023

    Automated attendance using OpenCV and dlib facial recognition.

    Integrated Firebase for real-time data and CSV reporting.

    Eliminated manual errors and improved accuracy in records.

CERTIFICATIONS

Data Analysis Using Python — IBM (Apr 2025)

Deep Learning with TensorFlow — IBM (Apr 2025)

Hadoop 101 — IBM (Apr 2025)

Digital Marketing Certification — HubSpot Academy (Apr 2025)

ADDITIONAL SKILLS

ETL Automation — Hypothesis Testing — A/B Testing — Data Preparation

Version Control (Git) — Agile Collaboration — Communication

Teamwork — Data Storytelling — Problem Solving

EDUCATION

MEA Engineering College   Sep 2020 – Jun 2024
B.Tech in Computer Science and Engineering   *Perinthalmanna, Malappuram*