

MOHAMED NIFRAS

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PROFESSIONAL SUMMARY

Aspiring Data Scientist and recent graduate with a strong foundation in Machine Learning and Data Analytics. Hands-on experience in building predictive models, sales forecasting, and customer behavior analysis through academic and personal projects. Proficient in Python, SQL, Machine Learning and data visualization tools such as Power BI and Tableau, with a strong interest in applying data-driven solutions to real-world business problems.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, PL/SQL
- **Machine Learning & AI:** Machine Learning, Deep Learning, Statistical Analysis, Feature Engineering, Model Evaluation
- **Libraries & Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, OpenCV, Streamlit, PySpark, Matplotlib, Seaborn
- **Data Visualization & BI:** Power BI, Tableau, Excel, Advanced Analytics Dashboards
- **Tools & DevOps:** Docker, Databricks, Git, GitHub, Jupyter Notebook
- **Databases:** SQL (MySQL, PostgreSQL), MongoDB, NoSQL
- **Core Competencies:** Data Preprocessing, ETL Pipelines, A/B Testing, Time Series Forecasting, Customer Segmentation, Predictive Analytics, Business Intelligence

EDUCATION

Syed Ammal Engineering College

Ramanathapuram, India

Bachelor of Technology in Artificial Intelligence and Data Science – CGPA: 7.7/10

Oct 2021 – Jun 2025

PROJECTS

Sales Forecasting Model – Machine Learning

Python, Pandas, XGBoost, Scikit-Learn

- Built sales forecasting system using historical data achieving 85% prediction accuracy through Linear Regression, Random Forest, and XGBoost ensemble methods
- Engineered time-based features (lag features, rolling averages, seasonality) and performed data preprocessing (missing value imputation, outlier detection)
- Visualized predictions vs actuals to enable inventory optimization, reducing potential stockouts by 20%

Customer Behavior Analysis – Data Analytics

Python, SQL, Power BI, Excel

- Analyzed 50,000+ transactions using SQL queries and Python to identify purchasing patterns and customer lifetime value
- Performed RFM segmentation creating 5 customer segments; built interactive Power BI dashboards for retention and churn analysis
- Delivered insights improving customer retention strategy and marketing ROI through targeted segment identification

PROFESSIONAL EXPERIENCE

Evolve Robot Lab – Robotics & AI Company

Ramanathapuram, India

Robotics & IoT Intern

Jul 2023 – Aug 2023

- Developed IoT rover robot with autonomous obstacle detection using Arduino, ESP8266, and ultrasonic sensors
- Implemented real-time data processing algorithms for navigation and obstacle avoidance systems
- Collaborated cross-functionally on hardware-software integration and wireless communication protocols

ADDITIONAL STRENGTHS

- Statistical methods, A/B testing, experimental design, and hypothesis testing
- Git version control, collaborative development, Agile methodologies
- Production-ready code following software engineering best practices and design patterns