

Muhammad Haroon Rasheed K.M

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SUMMARY

Machine Learning & Data Engineer with hands-on experience in model development, LLM-based systems, MLOps, data processing pipelines, and real-time application deployment using Python, TensorFlow, Streamlit, SQL, and cloud platforms. Skilled in transforming analytical insights into scalable products and securing data workflows with privacy-first design.

EXPERIENCE

Machine Learning Intern - The Mind Company (Jul 2025 - Aug 2025)

- Executed data preprocessing, cleaning, feature engineering, and visualization using NumPy, Pandas, Matplotlib, Seaborn & Scikit-learn for multiple structured mini-projects, improving data quality and modeling readiness.
- Built and evaluated baseline models (Linear/Multiple Regression, Logistic Regression, KNN, Decision Trees, Random Forest, Naive Bayes) in Scikit-learn with cross-validation.
- Assessed models using MSE, RMSE, and R2, documenting results and trade-offs to guide selection.

Data Analyst Intern - Code From Basics, Chennai (Oct 2024 - Jan 2025)

- Built an interactive Power BI dashboard to analyze user engagement across major social media platforms.
- Designed KPIs, DAX measures, and trend visualizations to uncover insights on content performance, demographic behavior, and platform reach.
- This project demonstrates strong analytical thinking, dashboard design skills, and the ability to derive real marketing insights from raw data."

PROJECTS

StrengthX – Password Security and Breach Detection (Sep 2025 - Nov 2025)

- Developed and deployed a privacy-first password security platform used by 100+ test users, featuring LLM-powered password generation, SHA-1 hashing, and real-time breach checks via the HIBP API. Built a Streamlit interface and deployed the system on Render for public access.

Tech: Python, Streamlit, SHA-1, HIBP API, Custom LLM, Render

MomentoMonto – Real-Time Server Uptime & Response Time Monitoring System (Oct 2025 - Nov 2025)

- Designed a heartbeat-based monitoring platform for continuous server health checks, response time logging, and time-series visualization. Implemented Cron-based scheduling, alerting logic, and dashboarding using Python and Streamlit for developer-friendly monitoring and diagnostics.

Tech: Python, Streamlit, Requests, Matplotlib, Cron Scheduling

User-social media analysis with Power BI (Oct 2024 - Jan 2025)

- Analyzed social media engagement patterns (posts, likes, comments, shares, impressions, CTR, retention) to extract behavior insights and performance trends. Built interactive Power BI dashboards to support content strategy optimization and data-driven decision making.

Tech: Power BI, Excel, Data Modeling, KPI Metrics

LANGUAGES, SKILLS AND CERTIFICATES

- **Technical Skills:**

- Programming & ML – Python, TensorFlow, PyTorch, Scikit-learn, ML Algorithms, LLMs, Feature Engineering
- Data & Visualization – Pandas, NumPy, SQL, MongoDB, MySQL, Power BI, Tableau, EDA, Data Engineering
- MLOps & Deployment – Streamlit, Docker, GitHub Actions, REST API, Data Pipelines, Model Deployment, Cloud Deployment, Model Registry, Experiment Tracking

- **Soft Skills:**

- Demonstrated strong time management while handling multiple academic + project deadlines.
- Highly adaptable, quickly learning new tools and technologies during project development.
- Skilled in problem-solving and debugging complex ML/model issues.
- Strong critical thinking and analytical reasoning applied in data-driven decision making.
- Effective team collaborator, experienced in open-source contributions and seminar delivery.

- **Achievements:**

- Built & deployed 2+ AI/ML applications with real-time monitoring, breach detection, and predictive analytics.
- Implemented privacy-first security using client-side hashing and zero data retention.
- Developed and optimized ML pipelines with feature engineering, class imbalance handling, and performance evaluation.
- Created automated dashboards and production-ready applications using Python, Streamlit, and Render.
- Hosted a MongoDB seminar for 60+ students with 90% positive feedback.
- Maintained an open-source GitHub portfolio with 5+ ML, data science, and Python projects.

- **Certifications:**

- Certified Power BI Analyst
- Oracle Certified AI & ML Engineer
- Cisco Certified Data Analyst
- Cisco Certified Python Programmer
- IBM Certified AI Professional
- IBM Certified WatsonX Orchestrater
- Google Certified Cybersecurity Professional

EDUCATION

- **Bachelor of Technology in Artificial Intelligence** (*Current CGPA: 8.7/10*)

Anna University, Chennai - 600025 (*Sep 2023 - Oct 2027*)

- **Course Work:** Exploratory Data Analysis, Machine Learning, Database Systems, Deep Learning