

Md Jahid Hasan

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Professional Summary

Professional with 6+ years of progressive experience in machine learning, statistical analysis, and software engineering. Kaggle Grandmaster with proven expertise in developing predictive models, building scalable data pipelines, and deploying production-ready ML solutions. Currently pursuing an MS in Data Science at Eastern University while demonstrating proficiency across Python, R, SQL, TensorFlow, and PyTorch ecosystems. Track record of processing large-scale datasets, implementing REST APIs for ML models, and delivering 60% efficiency improvements through data-driven solutions. Experienced in end-to-end ML lifecycle from data collection and feature engineering to model deployment and monitoring. Eager to leverage analytical expertise and technical skills to drive data-driven decision-making and deliver impactful ML solutions in a dynamic organization.

Education

Eastern University, Philadelphia, PA <i>Bachelor of Science (MS), Data Science (GPA: 4.00 / 4.00)</i>	Jan 2024 – Excepted May 2026 St. Davids, Pennsylvania
• Relevant Coursework: Introduction to Statistical Modeling, Data Analytics in R, Data Manipulation, Applied Machine Learning, Natural Language Processing	Sep 2013 – Dec 2017 Dhaka, Bangladesh

Southeast University <i>Bachelor of Science (BS), Computer Science and Engineering (GPA: 3.78 / 4.00)</i>	Sep 2013 – Dec 2017 Dhaka, Bangladesh
• Relevant Coursework: Database Design, Artificial Intelligence, Statistical Methods & Probability, Image Processing, Data Mining	

Experience

Ludwig Pfeiffer Hoch- und Tiefbau GmbH & Co. KG <i>Programmer</i>	Jan 2021 – Dec 2023 Dhaka, Bangladesh
• Developed and maintained database management systems handling 100K+ records using MySQL and PostgreSQL, ensuring data integrity and optimized query performance. • Created automated reporting pipelines using Python (Pandas), SQL, and Power BI, reducing report generation time by 60% and improving operational visibility. • Built and deployed REST APIs using Django REST Framework for production-grade machine learning models. • Implemented Microsoft Power Apps and Power Automate solutions to streamline business workflows, improving process efficiency by 40%. • Designed predictive models for pipeline inspection optimization using computer vision and ML techniques.	

TAPPWARE Solutions Limited <i>Assistant Software Engineer</i>	Sep 2019 – Dec 2020 Dhaka, Bangladesh
• Developed scalable data pipelines for e-governance solutions processing 500K+ records daily with 99.9% accuracy. • Built and deployed machine learning web APIs using Django REST Framework and PostgreSQL for government and enterprise applications. • Implemented predictive models achieving over 85% accuracy for personalized e-learning system recommendations. • Conducted advanced data analysis on Japanese patient datasets using statistical modeling and NLP techniques to support data-driven decisions.	

Qtec Solution Limited <i>Junior Software Engineer</i>	Jan 2018 – Aug 2019 Dhaka, Bangladesh
• Applied machine learning techniques including classification, regression, clustering, and ensemble methods to generate actionable business insights. • Developed sentiment analysis models for marketing strategy optimization, achieving up to 82% model accuracy. • Built web scraping solutions and data preprocessing pipelines to support comprehensive market and customer behavior analysis. • Designed data warehousing solutions using dimensional modeling and ETL processes for large-scale datasets.	

Projects

Customer Profitability & Marketing Analysis | R, Python, ggplot2, Matplotlib, Seaborn, RMarkdown, HTML/CSS

- Conducted comprehensive customer behavior and profitability analysis using R and Python on 50K+ customers.
- Created interactive visualizations using ggplot2 with custom themes to identify marketing performance trends.
- Delivered actionable insights through well-documented RMarkdown reports and interactive visual outputs.

Customer Insights and Transaction Trends Dashboard | Python, Pandas, NumPy, Matplotlib, Seaborn, JavaScript, GitHub Pages

- Designed an interactive analytics dashboard analyzing 100K+ financial transactions to uncover spending patterns.
- Applied advanced statistical techniques and data visualization to support data-driven business decision-making.

Multi-Language Detection Web Application | Python, Flask, Scikit-learn, Docker, Railway, HTML/CSS/JavaScript

- Developed an ML-powered web application capable of detecting 17 languages with 98% accuracy using a Gaussian Naive Bayes classifier.
- Deployed a full-stack production-ready solution using Flask, Docker, and Railway, enabling scalable and reliable real-time inference.

Publications

SmolLab_SEU at CheckThat! 2025: How well do multilingual transformers transfer across news domains for cross-lingual subjectivity detection

CLEF - Conference and Labs of the Evaluation Forum, Sep 26, 2025

Technical Skills

Programming Languages: Python, R, SQL, Java, C++, MATLAB, JavaScript

Machine Learning: Scikit-learn, XGBoost, LightGBM, CatBoost, Random Forest, Gradient Boosting, SVM, Neural Networks, Ensemble Methods

Deep Learning & Computer Vision: TensorFlow, PyTorch, Keras, CNNs, RNNs, LSTMs, Transformers, Transfer Learning, OpenCV, Image Processing

NLP & Text Analytics: NLTK, spaCy, Hugging Face Transformers, Word Embeddings, Sentiment Analysis, Text Classification

Data Science Libraries: Pandas, NumPy, SciPy, Statsmodels

Data Visualization: Matplotlib, Seaborn, Plotly, ggplot2, Power BI, Tableau, Streamlit

Statistical Analysis: Hypothesis Testing, A/B Testing, Regression Analysis, Time Series Analysis, Experimental Design

Databases: MySQL, PostgreSQL, MongoDB, SQLite, Database Design, Query Optimization

Big Data & Cloud: Apache Spark, AWS (S3, EC2), Docker, Kubernetes, ETL Pipelines, Data Warehousing

Web & APIs: Flask, Django, FastAPI, REST APIs, HTML/CSS, JavaScript, Node.js, BeautifulSoup (Web Scraping)

Tools & Platforms: Git, GitHub, Jupyter, Linux, VS Code, Postman, Swagger

Microsoft Power Platform: Power BI, Power Apps, Power Automate, SharePoint

Methodologies: Agile, Scrum, CI/CD, Feature Engineering, Model Deployment, MLOps

Achievements & Certifications

Kaggle Grandmaster | Top 0.1% globally; Progressed from Expert → Master → Grandmaster in 6 months

Published 20+ highly-ranked notebooks, including:

- **Loan Status Analysis** (Credit Risk)
- **Laptop Price Trends** (Retail Pricing)
- **Electric Vehicle Charging Analysis** (Clean Tech)
- **AI/ML/Data Science Salaries** (Industry Analytics)
- **Diabetes Risk Prediction** (Healthcare)

Professional Certifications

Stanford University: Machine Learning (Coursera)

University of Michigan: Applied Machine Learning in Python (Coursera)

DeepLearning.AI: Natural Language Processing in TensorFlow (Coursera)

UC Davis: SQL for Data Science (Coursera)

Additional Information

- **Authorization:** Authorized to work for any US employer without sponsorship
- **Relocation:** Willing to relocate anywhere in the United States
- **Languages:** English (Professional), Bengali (Native)
- **Interests:** Open-source contributions, Kaggle competitions, AI research, Data Visualization