

# Md Jahid Hasan

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## Professional Summary

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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

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| <b>Eastern University, Philadelphia, PA</b><br><i>Master of Science (MS), Data Science (GPA: 4.00 / 4.00)</i>   | Jan 2024 – Excepted May 2026<br><i>St. Davids, Pennsylvania</i> |
| <ul style="list-style-type: none"><li>• <b>Relevant Coursework:</b> Introduction to Statistical Modeling, Data Analytics in R, Data Manipulation, Applied Machine Learning, Natural Language Processing</li></ul> |   |
| <b>Southeast University</b><br><i>Bachelor of Science (BS), Computer Science and Engineering (GPA: 3.78 / 4.00)</i>   | Sep 2013 – Dec 2017<br><i>Dhaka, Bangladesh</i>                 |
| <ul style="list-style-type: none"><li>• <b>Relevant Coursework:</b> Database Design, Artificial Intelligence, Statistical Methods &amp; Probability, Image Processing, Data Mining</li></ul>                      |   |

## Experience

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| <b>Ludwig Pfeiffer Hoch- und Tiefbau GmbH &amp; Co. KG</b><br><i>Programmer</i>  | Jan 2021 – Dec 2023<br><i>Dhaka, Bangladesh</i> |
| <ul style="list-style-type: none"><li>• Developed and maintained database management systems handling 100K+ records using MySQL and PostgreSQL, ensuring data integrity and optimized query performance.</li><li>• Created automated reporting pipelines using Python (Pandas), SQL, and Power BI, reducing report generation time by 60% and improving operational visibility.</li><li>• Built and deployed REST APIs using Django REST Framework for production-grade machine learning models.</li><li>• Implemented Microsoft Power Apps and Power Automate solutions to streamline business workflows, improving process efficiency by 40%.</li><li>• Designed predictive models for pipeline inspection optimization using computer vision and ML techniques.</li></ul> |   |
| <b>TAPPWARE Solutions Limited</b><br><i>Assistant Software Engineer</i>  | Sep 2019 – Dec 2020<br><i>Dhaka, Bangladesh</i> |
| <ul style="list-style-type: none"><li>• Developed scalable data pipelines for e-governance solutions processing 500K+ records daily with 99.9% accuracy.</li><li>• Built and deployed machine learning web APIs using Django REST Framework and PostgreSQL for government and enterprise applications.</li><li>• Implemented predictive models achieving over 85% accuracy for personalized e-learning system recommendations.</li><li>• Conducted advanced data analysis on Japanese patient datasets using statistical modeling and NLP techniques to support data-driven decisions.</li></ul>   |   |
| <b>Qttec Solution Limited</b><br><i>Junior Software Engineer</i>   | Jan 2018 – Aug 2019<br><i>Dhaka, Bangladesh</i> |
| <ul style="list-style-type: none"><li>• Applied machine learning techniques including classification, regression, clustering, and ensemble methods to generate actionable business insights.</li><li>• Developed sentiment analysis models for marketing strategy optimization, achieving up to 82% model accuracy.</li><li>• Built web scraping solutions and data preprocessing pipelines to support comprehensive market and customer behavior analysis.</li><li>• Designed data warehousing solutions using dimensional modeling and ETL processes for large-scale datasets.</li></ul>   |   |

## Projects

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### **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

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### **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

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**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

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### **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

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- **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