Hammad Ali — Software Developer — AI/ML Engineer

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Aspiring software developer with expertise in Python, AI/ML, and full-stack development.

Education

Jamia Millia Islamia University — **New Delhi**
Bachelor's in Computer Engineering, SPI: 7.85 — *2022–2026*
Achieved a 96.3% percentile in JEE, securing admission to this nationally ranked university.

Kendriya Vidyalaya Sangathan (CBSE) — **Pilibhit**
Senior Secondary Education, 96.2% — *2020–2022*
Secured district rank and top 1% nationwide.

Ben Hur Public School (CBSE) — **Pilibhit**
Secondary Education, 95.2% — *2018–2020*
Excelled in Mathematics and Science.

Work Experience

Paper Perfect — **Remote**
Python Developer Intern — *2022–2023*
- Delivered backend development and data analysis solutions for clients, focusing on automation and efficiency.
- Applied machine learning techniques to enhance project outcomes, leading to a 25% improvement in client satisfaction.
- Developed automation scripts for various social media platforms (Twitter, Facebook, LinkedIn, Freelancer) to streamline data collection and engagement.
- Built websites for startups using WordPress and Flutter, improving user engagement and client business visibility.

Self-employed — **Remote**
Freelancer — *2023–Present*
- Completed over 50 projects in automation, data analysis, AI/ML, and web development, consistently achieving a 98% client satisfaction rate.
- Conducted in-depth data analysis for sales teams, providing actionable insights that improved conversion rates by 15%.
- Developed Telegram bots for various tasks, including customer service automation and real-time notifications, reducing response time by 50%.
- Delivered AI/ML-driven solutions for clients in various industries, automating tasks and improving business operations through intelligent system integration.

Projects

LUFY: Developed a multilingual legal document summarization platform using TensorFlow, Keras, HuggingFace, and Flask.
- Provided both abstractive and extractive summaries in multiple local languages like Hindi, Marathi, and Gujarati using Google Translate API, enhancing accessibility for non-English speakers.
- Implemented a query-based system enabling users to ask specific questions about legal documents and receive detailed insights.
- Fine-tuned BART-based models for superior summarization, ensuring accurate and user-friendly outputs.

RideOnWhale: Developed a comprehensive stock market analysis platform for tracking and analyzing NSE option chain data.

- Built real-time option chain analysis for indices like NIFTY and BANKNIFTY.
- Implemented Change in Open Interest (COI) monitoring to identify market trends.
- Created a secure user login system with OTP authentication and subscription support.

HybridTongue: Code-Mixed Sentiment Analysis using Scikit-Learn, Gensim, Pytorch, Transformers, and Regex.

- Addressed challenges in Hinglish (Hindi-English) sentiment analysis using code-mixed datasets from informal communication sources like YouTube comments.
- Designed a comprehensive preprocessing pipeline to clean and normalize mixed-language text, achieving a near 10% accuracy improvement, enhancing Word2Vec-based embeddings.
- Leveraged MuRIL (Multilingual Representations for Indian Languages), a transformer-based language model tailored for Indian languages. Fine-tuning MuRIL yielded a 5% accuracy improvement over traditional approaches, resulting in a final F1 score of 0.76.

Falkon: Few-Shot Language Agnostic Keyword Spotting System using TorchAudio, Pytorch, and Transformers.

- Implemented a highly optimized Voice Activity Detection (VAD) system to segment variable-length audio files into chunks with potential keywords.
- Trained a Transformer-based encoder-only architecture to classify MFCCs, achieving 84% accuracy for a base class of 10 languages with 100 samples per class.
- Used few-shot learning to extend model capabilities to low-resource classes, successfully integrating 440 novel classes with only a 10% drop in performance.

Technical Skills

Programming Languages: Python, JavaScript, C++, C, SQL

Web Development: HTML, CSS, Flask, ReactJS, WordPress, Flutter

Machine Learning/AI: TensorFlow, Scikit-Learn, YOLO, FastText, Hugging Face, Gemini AI, Chroma DB

Data Analysis/Big Data: Pandas, NumPy, Matplotlib, Seaborn, Apache Spark, BigQuery

Automation/Scripting: Selenium, Web Scraping, Automation Scripts for Social Media (Twitter, Facebook, LinkedIn, Freelancer), Telegram Bots

Tools: Git, Docker, Streamlit, Jupyter Notebooks, VS Code, Postman

Database: MySQL, MongoDB, Firebase, PostgreSQL, SQLite

Cloud/DevOps: AWS, Azure, Kubernetes, Docker

Web Technologies: RESTful APIs, WebSockets

Project Management/Collaboration: Clickup, GitHub, HuggingFace

Positions of Responsibility

AI/ML Head: Google Developer Groups (GDG), JMI

- Organized an ML Challenge comprising two rounds, with a reach of over 9,000 students.
- Conducted multiple workshops on machine learning, equipping students with hands-on skills in AI/ML.

Web Development Head: W3B, JMI

- Managed a team responsible for creating and maintaining the chapter's website, ensuring timely updates.
- Designed and developed web pages for events and activities, improving the chapter's online engagement.

Achievements

Hackathon Winner: Secured 1st place in the SIH 2024 Grand Finals (Problem Statement: SIH-1680).

Top Performer: Achieved a 98th rank in the Amazon ML Challenge 2024 out of around 32000 teams.

Hackathon Winner: Won HackJMI 2023 for developing an innovative AI-driven solution.

Finalist/Semifinalist: Reached the finals and semifinals of multiple hackathons, showcasing expertise in AI, ML, and web development.