

Nafees Ahmed Bhatti

AI Engineer | Generative AI Developer | Full Stack Developer

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PROFESSIONAL SUMMARY

Emerging AI Engineer and Generative AI Developer with demonstrated experience building AI-powered applications, integrating Large Language Models (LLMs), and applying prompt engineering to deliver intelligent, production-ready software. Proficient in end-to-end full stack development using the MERN stack (MongoDB, Express.js, React.js, Node.js), REST API development, and machine learning pipelines leveraging Python, Scikit-Learn, TensorFlow, and Keras. Experienced in implementing Retrieval-Augmented Generation (RAG) patterns, training and evaluating ML models, and collaborating within Agile software development lifecycles. Passionate about applying generative AI and deep learning to build scalable applications that solve real-world problems.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES6+), TypeScript

Frontend: React.js, Next.js, HTML5, CSS3

Backend: Node.js, Express.js, Django

Databases: MongoDB, MySQL

AI & Machine Learning: Generative AI, Large Language Models (LLMs), LLM Integration, Prompt Engineering, Retrieval-Augmented Generation (RAG), Machine Learning, Deep Learning, Model Training, Model Evaluation, Scikit-Learn, TensorFlow, Keras, Pandas, NumPy, OpenCV, Data Preprocessing

Software Engineering: Full Stack Development, REST APIs, API Development, Database Design, Authentication, Debugging, Agile Development, SDLC

Tools: Git, GitHub, Postman, VS Code

PROFESSIONAL EXPERIENCE

AI Engineer — Drytis | March 2026 – Present

- Built AI-assisted software solutions integrating LLM APIs and Generative AI technologies, enabling intelligent automation of core application workflows and reducing manual processing effort.
- Developed and implemented prompt engineering strategies to improve LLM output quality, accuracy, and consistency across multiple application features.
- Integrated large language model APIs into full stack application architectures, delivering end-to-end AI features from backend logic to frontend user experience.
- Optimized existing software features through systematic debugging, code refactoring, and performance analysis, improving application reliability and maintainability.
- Delivered new software features following full software development lifecycle (SDLC) practices, from technical design and implementation through testing and documentation.
- Implemented technical documentation for AI integrations, API interfaces, and system architecture, supporting team knowledge transfer and engineering onboarding.

Software Developer & Technical Trainer — Desire Infotech | November 2024 – October 2025

- Developed full stack MERN applications (MongoDB, Express.js, React.js, Node.js) with RESTful API architectures and responsive frontend interfaces for real-world client use cases.
- Delivered a structured Full Stack Development training curriculum to 500+ students, covering React.js, Node.js, Express.js, MongoDB, REST API development, and software engineering best practices.
- Implemented hands-on mentorship through code reviews, debugging sessions, and architectural guidance for 500+ students, measurably improving code quality and development confidence.

- Designed and built real-world software projects used as live training case studies, aligning curriculum with industry standards and current development workflows.
- Optimized curriculum delivery and student engagement by continuously iterating on teaching materials based on cohort feedback and learning outcome assessments.

PROJECTS

AI Study Assistant — [GitHub Repository](#)

React.js • Node.js • Express.js • MongoDB • LLM APIs • Prompt Engineering

- Built an AI-powered educational platform integrating LLM APIs to automatically generate personalized quizzes, topic summaries, and adaptive learning plans tailored to individual student needs.
- Implemented advanced prompt engineering techniques to structure LLM interactions for consistent, high-quality educational content generation across diverse subject areas.
- Developed a complete full stack architecture with a React.js frontend, Express.js/Node.js REST API backend, and MongoDB data layer, supporting scalable multi-user access.

AI Health Analyzer — [GitHub Repository](#)

Python • Scikit-Learn • React.js • Pandas • NumPy • Machine Learning

- Built a machine learning-powered health prediction application that analyzes user-reported symptoms and applies a trained Scikit-Learn classification model to generate health condition predictions.
- Developed the full ML pipeline including data preprocessing with Pandas and NumPy, feature engineering, model training, and model evaluation to maximize classification accuracy.
- Implemented a React.js frontend that delivers real-time prediction results, making the ML system accessible through an intuitive web-based interface.

Animal Endangered Species Detection System

Python • Machine Learning • Scikit-Learn • Pandas • Computer Vision

- Built an image classification system trained on a dataset of 6,400+ images, achieving 90% classification accuracy in identifying and categorizing endangered animal species.
- Implemented data preprocessing, feature extraction, and model evaluation pipelines using Scikit-Learn and Pandas, optimizing model performance through systematic hyperparameter tuning.

EDUCATION

Bachelor of Technology — Computer Science Engineering

Baba Ghulam Shah Badshah University | Graduated: 2024 | CGPA: 7.78 / 10.0

CERTIFICATIONS

Machine Learning Certification — 2023

Python, Data Preprocessing, Scikit-Learn, Machine Learning Algorithms

Full Stack Development Certification — 2025

React.js, Node.js, Express.js, MongoDB, REST API Development

LANGUAGES

English • Hindi • Urdu