

MD SAFDAR ANSARI

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Objective

Aspiring AI Engineer with strong foundations in Machine Learning, NLP, and Full-Stack Development. Passionate about building intelligent, secure, and scalable AI systems by leveraging LLMs, Generative AI, and modern data-driven technologies. Dedicated to continuous learning and solving real-world problems with innovation.

Internship Experience

DataPatterns.ai — Generative AI Intern

Jun 2025 – Jul 2025 — Remote

Technologies: Python, NLP, Hugging Face Transformers, Gradio, Databricks, Pandas, NumPy

- Developed AI-powered chatbots and LLM-based applications for defense and enterprise use cases.
- Implemented NLP tasks such as tokenization, lemmatization, and summarization using spaCy and NLTK.
- Designed Gradio interfaces integrated with Hugging Face and deployed via Databricks notebooks.
- Applied prompt engineering, fine-tuning, and responsible AI techniques for model optimization.

CodTech IT Solutions — Full Stack Web Developer Intern

Jan 2025 – Mar 2025 — Remote

Technologies: MERN Stack, REST APIs, Git Workflow

- Designed full-stack web applications using MongoDB, Express, React, and Node.js.
- Implemented secure authentication (JWT) and role-based access control (RBAC).
- Collaborated in Agile sprints using GitHub for version control and issue tracking.

Projects

AI-Driven Handwriting Recognition & Translation System

Aug 2025 – Ongoing

Technologies: Python, TensorFlow, OpenCV, Tesseract OCR, Transformers, Flask, Matplotlib, NumPy, Pandas

- Built a deep learning pipeline to recognize and translate handwritten text into digital and multi-lingual outputs.
- Used CNNs for feature extraction and Transformer models for translation across English, Hindi, and Urdu.
- Applied OpenCV preprocessing, OCR for text extraction, and Flask API for serving model results.
- Visualized dataset insights using Matplotlib, Seaborn, and heatmaps for model accuracy evaluation.

College Enquiry Chatbot — AI Conversational Assistant

Jun 2025 – Jul 2025

Technologies: Python, Hugging Face Transformers, Flask, Gradio, Databricks

- Developed an NLP-based chatbot capable of understanding college-related FAQs using LLMs.
- Integrated JSON-based knowledge base for structured data and contextual responses.
- Deployed model pipelines through Databricks with an interactive Gradio interface.

Generative AI Document Summarizer

Aug 2025

Technologies: Python, Hugging Face Transformers, PyPDF2, Google Colab

- Created a document summarization app supporting PDF, DOCX, and TXT inputs.
- Used transformer pipelines for extractive and abstractive summaries with adjustable length.

- Evaluated output using ROUGE and BLEU metrics for precision and fluency.

Institutes Management App — Smart Admin Panel

Jan 2025 – Apr 2025

Technologies: MERN Stack, JWT Auth, MongoDB Atlas

- Built an institute management system with secure login, CRUD operations, and data visualization.
- Implemented JWT authentication, RBAC, and MongoDB aggregation pipelines.

College Shuttles Tracking App — X-Link

2024

Technologies: Google Maps API, Firebase, JavaScript

- Developed a real-time shuttle tracking system integrated with Google Maps API.
- Created admin dashboard for managing buses and sending live notifications.

Mini Projects

- Real-Time Device Tracker — Implemented GPS tracking with WebSockets and geofencing.
- E-Commerce App — Enabled secure payments, cart system, and live order updates.
- To-Do List App — Built with HTML, CSS, JavaScript using localStorage.

Education

Excel Engineering College, Tamil Nadu

Aug 2022 – May 2026

B.E. in Computer Science and Engineering (Final Year) – CGPA: 8.2/10

Higher Secondary School, Bihar

Apr 2018 – May 2020

BSEB (PCM) – 67.8%

Technical Skills

AI/ML Frameworks: Hugging Face Transformers, TensorFlow, PyTorch (Basic), LangChain, OpenAI

API, Scikit-learn, Gradio, Databricks, MLflow

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Heatmaps, Confusion Matrices

NLP & Data Processing: spaCy, NLTK, OCR (Tesseract), Text Cleaning, Tokenization, Lemmatization, Stopword Removal

Programming Languages: Python, JavaScript, Java (Basic)

Web Development: HTML5, CSS3, Tailwind CSS, React.js, Node.js, Express.js, Bootstrap

Databases: MongoDB, PostgreSQL (Basic), SQL

Developer Tools: Git, GitHub, VS Code, Postman, Jupyter, Anaconda, GitHub Copilot

Cybersecurity: OWASP Top 10, JWT Auth, RBAC, HTTPS, Input Validation

Certifications

- Databricks — Generative AI Fundamentals
- IBM — Artificial Intelligence Fundamentals
- LinkedIn Learning — Generative AI Essentials
- Palo Alto Networks — Cybersecurity Foundation
- Forage — GenAI Powered Data Analytics
- Udemy — MERN Stack Development (JWT & Bcrypt)
- Udemy — MongoDB Developer Course (Indexing & Aggregation)
- Solved 100+ coding problems in Java DSA & JavaScript

Personal Information

Name: Md Safdar Ansari

Languages: English, Hindi, Urdu

Address: Vill – Sonapur, Post – Puranagunj, Thana – Baisi, Dist – Purnea, Bihar, 854315

Portfolio: iamsafdarportfolio.netlify.app

Status: Final-Year B.E. Student — Computer Science and Engineering (CGPA: 8.2/10)

Declaration

I hereby declare that the above information is true to the best of my knowledge and belief.