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Professional Summary

Software Engineer with hands-on experience in developing AI-powered web applications using Python, Django, Flask, and the MERN stack. Focused on Machine Learning, Natural Language Processing, and Data Analysis. Seeking opportunities to apply technical expertise in building intelligent, full-stack solutions to solve real-world problems.

Education

Namal University Mianwali, BS in Computer Science

Nov 2021 – Jun 2025

- **CGPA:** 3.11/4.0
- **Coursework:** Artificial Intelligence (AI), Machine Learning (ML), Digital Image Processing, Natural Language Processing (NLP), Cybersecurity, Software Engineering

Achievements

- **Winner** – Best Final Year Project (FYP), AI InnoFest 2025, Bahria University, Islamabad
- **2nd Place** – FYP Poster Design Competition, Namal University, Mianwali

Skills and Technologies

Programming Languages: Python, JavaScript

Web Development: Django, Flask, React.js, Node.js, Django Rest Framework, Bootstrap, TailwindCSS

AI & ML: TensorFlow, PyTorch, Scikit-learn, Keras, LLMs

Databases: PostgreSQL, MySQL, MongoDB

Deployment: Render, Railway, Vercel, HuggingFace

Other Tools: Git, GitHub, Postman, Power BI, Jupyter, Google Colab, Figma

Work Experience

Teaching Assistant: Web Development, Namal University, Mianwali

Sep 2024 – Feb 2025

- Mentored 20+ students in developing full-stack web applications using Django and React.
- Conducted weekly lab sessions focused on backend APIs, frontend integration, database connectivity.
- Received 90%+ positive feedback from students.

Personal Projects

AI-Powered Interviewing System (FYP)

Live demo || [Github](#)

- Developed a real-time AI-Powered interviewing System covering the end-to-end hiring process. Integrated automated evaluation aligned with recruiter standards, achieving a 0.79 correlation and 81% confidence prediction accuracy.
- Tech: Django, React.js, REST API, PostgreSQL, BERT, CNN, Whisper, PlayAI, Groq

AI-Copilot for Personalized Learning

[Github](#)

- Built an AI system that generated 100+ personalized quizzes and feedback reports based on 20+ student profiles. Used Retrieval-Augmented Generation to align questions with teacher-uploaded content, improving quiz relevance by 85%.
- Tech: Django, React.js, PostgreSQL, Retrieval-Augmented Generation, Hugging Face Transformers

AI-Powered Mood Tracker Journal

[Github](#)

- Designed and implemented an AI-based journaling app that uses NLP and LLMs to analyze emotions in user speech or text input i.e 100 words and provides song recommendations. Generated mood-based song suggestions with 90% accuracy and visualized sentiment trends on a dynamic dashboard.
- Tech: Django, DRF, React.js, PostgreSQL, Groq, Web Speech API

FreshMart – Online Grocery Store

[Github](#)

- Implemented a responsive grocery store supporting 50+ products, real-time cart updates, and checkout flow. Developed an admin dashboard enabling 100% CRUD control with live product status updates and role-based access.
- Tech: MERN Stack (MongoDB, Express, React.js, Node.js), Tailwind CSS

Custom Natural Language Understanding (NLU) Pipeline

- Engineered a complete NLU pipeline achieving 95.3% intent classification and 92.7% entity recognition accuracy across 12+ classes using custom labeled dataset. Incorporated preprocessing and tokenization techniques.
- Tech: Python, Transformers, DistilBERT, RoBERTa, Hugging Face