Musab Sarmad Mir

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Education

FAST-NUCES **August 2023 - August 2027**
Fintech Bachelors of Science

Completed coursework in **Data Analysis for Business I & II**, **Financial Management**, **Programming for Business**, **Introduction to Database Systems**, **Microeconomics**, **Critical Thinking**, and **Business Calculus I & II**, building a strong foundation in data-driven decision-making, financial literacy, technical proficiency, and strategic thinking.

Experience

Nexium **July 2025 - Present**
Web Development Intern Lahore,Pakistan

- Conducted research on emerging AI tools to integrate into full-stack web apps.
- Produced technical documentation and presented use-case analyses to product leads.
- Collaborated with backend team on implementing data-driven features that improved platform efficiency by 30%.

Headstarter AI **July 2024 - Sep 2024**
Software Engineering Fellow Remote, United States

- Engineered **AI-powered SaaS and customer support tools** using **Llama 3.1, Pinecone, and Stripe**, increasing user engagement by **30–70%** via personalized conversational experiences.
- Built and automated **data scraping pipelines** and **RAG (Retrieval-Augmented Generation) workflows**, optimizing user response latency by **50%**, significantly enhancing application responsiveness.
- Collaborated with **software engineers from Google, Amazon, and YC-backed startups**, expanding cross-functional engineering experience and professional network by **25%**.

Projects

NLP-Resume-Analyzer **April 2025**

- Implemented Named Entity Recognition and NLP pipelines to parse resumes and extract key entities (education, work experience, skills) using NLTK and custom scripts
- Developed a Python application with PyPDF2 for PDF parsing and Tkinter GUI for interactive score visualization
- Designed and integrated a Fintech database schema for storing parsed data as part of a 4th-semester project

Python, NLP, NLTK, PyPDF2, Tkinter, SQLite, Entity Recognition

NASA International Space Apps Challenge: Chronicles of Exoplanets **Oct 2024**

- **Led full-stack development** of an interactive **web and mobile app** that analyzes **exoplanet habitability**, integrating **AI, data science, and space exploration** into a seamless user experience.
- Designed and implemented a **custom algorithm** to evaluate planetary habitability, reducing a dataset of **5,000+ exoplanets to 379** high-potential candidates based on scientifically grounded scoring metrics.
- Developed an **AI-powered chatbot** using **LLaMA AI** to parse, interpret, and explain complex astrophysical data in real time to end users.

Skills

Skills

Python, NLP, NLTK, PyPDF2, Tkinter, SQLite, scikit-learn, pandas, Jupyter Notebook, JavaScript, React.js, Next.js, HTML5, CSS3/SCSS, Client-Server Architecture, Game Development, HTML5 Canvas, Git, Vercel, Firebase, Serverless Functions, CI/CD, Data Visualization, React, Node.js, Stripe, MongoDB, AI integration., LangChain, Prompt Engineering, Conversational AI, AI Workflow Design, n8n, AI workflow design, conversational AI, voice agents, context-aware chatbots, Make.com, Vapi, RESTful APIs, webhooks, Supabase, Airtable, Google Sheets API, Chrome Extension development, React Native, prompt engineering, RAG (retrieval-augmented generation), technical documentation, OpenAI API, CRM integration, GitHub, English communication, remote collaboration, rapid prototyping.