

Vidhan Mertiya

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EDUCATION

Indian Institute of Technology Madras <i>Bachelor of Science, Data Science and Applications</i>	2022 - 2026
University of Rajasthan <i>Bachelor of Computer Applications</i>	2021 - 2024

EXPERIENCE

Ground Zero Social Media Intern	July. 2024
<ul style="list-style-type: none">Developed engaging social media content and contributed to the organization's daily operations.	
Quest Alliance Data Intern	Dec. 2023 – Feb. 2024
<ul style="list-style-type: none">Supported the Superset ITI dashboard, ensuring data accuracy and cleanliness through routine health checks.Collaborated with team managers to conduct a comprehensive placement analysis for ITI and VTI graduates (2020–2023), identifying key trends.	
Quest Alliance Intern	Sept. 2021 – Nov. 2021
<ul style="list-style-type: none">Designed knowledge products for Quest 2 Learn.Conducted data analysis post-Quest 2 Learn 2021 event.	

SKILLS

- Data Science :** Numpy, Pandas, HuggingFace, BeautifulSoup, Selenium, SQL
- Developer :** Python, Java, HTML, CSS, JavaScript, TypeScript, VueJS, Flask, Jinja, NextJS
- Tools :** Git/GitHub, VS Code, Google Colab, Jupyter Notebook, Tableau, MS Excel

PROJECTS

JobSpy Go, Python, Postgres, NextJS, Tailwind, Docker	 Live
<ul style="list-style-type: none">Built full-stack job aggregation platform with NLP-powered entity extraction using Fuse.js & dynamic programming, handling typo-tolerant search queries achieving 95% accuracy in 50ms.Implemented Python Flask microservice for resume parsing & job matching using Together AI (Llama Vision) sentence transformers, delivering 1s semantic search via in-memory embedding cache.Engineered automated job scrapers in Go collecting from 3200+ companies with PostgreSQL full-text search (tsvector/trigram indexes), OAuth (GitHub/Google), and WebSocket connections for real-time embedding generation.	
Household Services Application TypeScript, HTML/CSS, Flask API, VueJS, SQLite, Git	 Repo
<ul style="list-style-type: none">Developed a Flask-Vue.js platform with JWT and role-based access, cutting API response time by 25% via Redis caching.Automated service monitoring with Celery and responsive dashboards for professional/admin.	

IITM Quizzes | *React, Flask, Go, SQLite, TypeScript, LLM, TailWind, Radix UI* Live  Repo

- Full Stack Web Application that lets users attempt quizzes.
- Leveraged LLMs for generating explanations for each question.
- Dockerized and Auto-Deployment using Github Actions.

CoinCraft | *Vue, Flask, SQLite, TypeScript, LLM, TailWind* Live  Repo

- IIT Madras project in which we got 2nd rank out of 50 teams. [View Certificate](#).
- Full Stack Web Application to teach children about Financial Literacy.
- Integrated AI-generated learning modules with gamification (coins, achievements).