

Manavi Dubey

📍 Pune ✉ manavidubey@gmail.com ☎ 9588486580

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Summary

Final-year Computer Engineering student at VIT, Vellore, with strong skills in Artificial Intelligence, Full-Stack Web Development, Software Development, and Machine Learning. Experienced in applying technical expertise through hands-on projects and industry internships. With a solid foundation in STEM and a passion for innovation, I am adaptable, motivated, and eager to drive impact at the intersection of technology and real-world problem solving.

Education

Vellore Institute of Technology, Vellore

Sept 2021 – June 2025

Bachelors Of Technology in Computer Science Engineering with specialization in Bioinformatics

- **Coursework:** Operating Systems, Data Structures and Algorithms, Artificial Intelligence, Computer Network, Database Management Systems, Design and Analysis of Algorithms, Object Oriented Programming, Compiler Design, Cryptography, Discrete Mathematics, Statistics, Data Analytics, Analytical Bioinformatics, Software Engineering.

Experience

Data Engineer Intern

Pune

Dataaeze Systems

Jan 2025 – Present

- Developed ETL workflows and managed SQL/NoSQL databases using AWS, Azure, and GCP.
- Developed and automated scalable data pipelines using Apache Spark, Hadoop, and Airflow for distributed data processing, supporting data science workflows, contributing directly to end-to-end product development.
- Worked on full-stack development, frontend, backend, and the design patterns for internal tools, helping me understand the industry standards.

Data Analyst Intern

Vellore

YMoney

Nov 2023 – May 2024

- Conducted data analysis on large datasets to identify trends using Python, SQL, and relational databases; managed data collection, data storage and retrieval for efficient querying.
- Developed and predicted data visualizations, improved data quality with normalization and reports to support decision-making processes and collaborated with other teams for the ideal results.

Software Development Intern

Pune

Tata Technologies

Aug 2023 – Oct 2023

- Developed a PDF AI answering bot using NLP and machine learning to automate query responses, performing research to identify the best models, and writing efficient code for accurate information extraction.
- Collaborated in an agile environment through the Software Development Life Cycle (SDLC), enhancing technical, problem-solving, and coding skills while continuously improving the solution and presented the project to stakeholders to be a part of enterprise software, receiving positive feedback for innovation, communication, and the effective use of AI technologies.

Projects

PDF Answering Bot

[Repository](#) 

- Developed an AI-powered bot using Python notebook frameworks to automatically extract and respond to queries from PDF documents, leveraging natural language processing (NLP) and large language models (LLMs) to accurately process and answer questions.

- Tools Used: : Natural Language Processing (NLP), Large Language Models (LLMs), Object Oriented Design

Attentio- Understanding Facial Expressions

[Repository](#) 

- Developed an application to analyze facial expressions from videos and identify psychological disorders by implementing computer vision algorithms and utilizing machine learning and deep learning techniques for accurate emotion detection and disorder classification, aimed at improving diagnostic accuracy and providing early intervention opportunities for mental health professionals.
- Tools Used: Python, Computer Vision ,User Experience, Debugging, SaaS, ReactJs and Figma

BlockLocator - Fund Trailing application with Anomaly Detection

[Repository](#) 

- Developed a web application to analyze fund trails, fraud detection and backtrack transactions, aiming to detect potential money laundering. It uses advanced algorithms for tracking fund flows, integrates blockchain for secure tracking, and offers an intuitive interface for interactive data visualization and analysis.
- Tools Used: : Blockchain-Solidity, Machine Learning, ReactJs, Flask, Python, Tailwind CSS.

Technologies

Languages: C, C++, Java, Python, GoLang, JavaScript, SQL

Frameworks & Technologies: React.js, Angular, Node.js, Express.js, TypeScript, Spring Boot, Microservices Architecture, Hibernate

Databases: PostgreSQL, MySQL, NoSQL, MongoDB, Oracle

DevOps & Platforms: AWS, Linux, Unix, iOS, Windows, Arduino, Docker, Kubernetes

Tools: Git, GitHub, Anaconda, Bash, Figma, IntelliJ IDEA, Jenkins, SonarQube, Transformers, TensorFlow, Keras

Technical Skills: Full-Stack Development, Backend Development (Java, Spring Boot, Microservices), Frontend Development (React.js, Angular), RESTful API Design, Event-Driven Architecture, Caching Solutions (Redis), Message Queues (Kafka), Multithreading, Algorithm Design & Distributed Computing, Software Development Lifecycle, Agile Development Debugging & Troubleshooting, Model Evaluation (AI/ML), API Integration

Soft Skills: Leadership, Event Management, Public Speaking, Innovation, Time Management, Prioritization, Teamwork- Collaboration Skills, Problem-Solving, Effective Communication, Problem Solving Skills,

Achievements

Events Head at Dream Merchants, VIT: Dream Merchants is a business management club with 500+ members. Organized "Stockastic," the first event as Events Head, a stock market simulation featuring innovative stocks and exciting world scenarios on our own portal. The event saw 1000+ registered participants.

Volunteering: Actively volunteered at two NGOs, SNEH and UdyaanCare Home, where I taught underprivileged children.

Hackathons:

- *Innoverse:* Second Runner Up in the hackathon organized by Mozilla Firefox Club, Blockchain Community, and IEEE ITS.
- *Hack4Impact:* Second Runner Up in the hackathon organized by IEEE CS BIF.

Senior Core Committee Member: Active member at various clubs including IEEE EMBS, LEO Club, Bulls & Bears Club, IEEE WIE, ADG (Apple Developers Group), and IEEE CS.