

Gopalam Vinay

Computer Science Engineering Student

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🐙 github.com/Vinaygopalam 🔗 vinaygopalam.github.io/portfolio

SUMMARY

Computer Science Engineering student with hands-on knowledge of Python, SQL, C# basics, Machine Learning, NLP, and AI. Experienced in developing web and AI-based projects, including a real-time Skill Exchange platform and a Mental Health Risk Detector using NLP and Machine Learning. Currently gaining practical exposure through an AI-focused summer internship at Mirai School of Technology. Strong interest in software development, problem-solving, and building practical technology solutions.

EDUCATION

B.Tech — Computer Science and Engineering, Vignan's Foundation for Science, Technology & Research 06/2023 – 07/2027 | Guntur
Current CGPA : 7.28

Intermediate — MPC, Shastra Junior college 05/2021 – 04/2023 | Vijayawada
Percentage : 92.9

SSC— State Board, Viswabharati English Medium High School 05/2020 – 08/2021 | Gudivada
GPA : 10.0

SKILLS

Programming: Python, C#, SQL

Web Technologies: HTML, CSS, React.js, Node.js, Express.js

AI/ML: Machine Learning, NLP

Database: MongoDB

Tools: Git, GitHub, VS Code, Jupyter Notebook

Software Engineering: REST APIs, Agile Methodologies, SDLC, Testing

PROJECTS

Mental Health Risk Detector from Social Media Text 🌐, Machine Learning & NLP 03/2026 – 05/2026

- Developed a machine learning system to classify social media text into low, moderate, and high-risk categories.
- Applied NLP preprocessing and TF-IDF vectorization to convert text into features for classification.
- Compared Logistic Regression, Multinomial Naive Bayes, and SVM models and selected the best-performing model.
- Built a Streamlit web application for real-time text and predictions.

Skill Exchange Platform 🌐, Peer-to-Peer Skill Trading Platform 09/2025 – 11/2025

- Developed a full-stack platform that enables users to share, learn, and exchange skills through skill listings and exchange requests.
- Implemented JWT-based authentication, protected routes, user profiles, skill management, and exchange request tracking.
- Built real-time chat and notifications using Socket.io for instant communication and request updates.
- Developed additional features including skill search, personalized recommendations, reviews and ratings, leaderboard, and statistics dashboard.

PUBLICATIONS

LSFTP: A Lightweight Secure File Transfer Protocol with Integrity Verification and Attack Detection for Academic Networks 🌐 05/2026

IEEE ICICT-2026 | Research Publication | Co-Author

- Co-authored a research paper proposing LSFTP, a lightweight secure file transfer protocol designed for academic networks.
- Studied the integration of Diffie-Hellman key exchange, AES encryption, SHA-256 hashing, and HMAC to provide secure file transmission with confidentiality, integrity, and authentication.
- Analysed attack detection for tampering, replay attacks, and unauthorised access, along with performance metrics such as encryption time, decryption time, latency, and throughput.

INTERNSHIP

MirAI School of Technology — AI/ML Intern, Virtual Summer Internship 2026 | AI Builder Track | 8 Weeks 07/2026 – 08/2026

- Completed hands-on AI/ML assignments involving Python, data analysis, machine learning, AI tools, and application development.
- Built and documented practical projects using Python, Streamlit, Pandas, NLP, and Machine Learning concepts.
- Applied Git and GitHub for version control, project documentation, repository management, and publishing internship assignments.
- Strengthened practical skills in AI application development, prompt engineering, data visualisation, API integration, and technical documentation.

CERTIFICATES

- Data Science Essentials with Python — Cisco, Front-End Software Engineering — Skyscanner, Introduction to Modern AI — Cisco, GenAI Powered Data Analytics Job Simulation — Tata, Python — HackerRank, Python Essentials 2 — Cisco, Software Engineer — HackerRank, Public Speaking — NPTEL