

A SHUBAM LUNAWAT

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Location: Chennai, India

SUMMARY

Final-year BTech student in Computer Science at VIT Chennai (CGPA: 8.38), with hands-on experience in full-stack development, machine learning, and building innovative applications. Interned as a Software Developer at ProfitAngles, delivering production-grade systems in finance, legaltech, and NLP. Proven ability to lead cross-functional teams, architect scalable platforms, and drive projects from ideation to deployment. Committed to leveraging Deep Learning, Natural Language Processing, and Data Science to solve real-world problems, with a strong track record in research-based projects, rapid prototyping, and tech events.

EXPERIENCE

ProfitAngles

Software Developer Intern May 2025 – July 2025

- **Interactive Financial Dashboard:** Designed a responsive, user-friendly interface enabling users to upload stock data and visualize key technical indicators (e.g., RSI, SMA, EMA, MACD, OBV), enhancing decision-making through intuitive charts and controls.
- **Real-time Heatmaps and Trends Interface:** Implemented auto-updating heatmaps and modular panels displaying live asset movements, sector-based analysis, and financial insights using visually optimized asset cards and smooth UI transitions.
- **End-to-End CI/CD Workflow:** Set up a robust development pipeline using GitHub Actions, Vercel, and cloud-hosted infrastructure, automating build, test, and deployment processes and reducing deployment time from over 30 mins to under 5 mins.
- **Modular Frontend & Scalable Backend:** Engineered reusable React components integrated with a modular Django backend to streamline development and ensure long-term scalability and maintainability.
- **Secure Access & Authentication:** Implemented user authentication and secure data handling practices, including encrypted communications and access control to protect sensitive user data and reduce risk by 50%.

SKILLS

Programming Languages: Python, C++, Java, JavaScript, TypeScript, SQL

Web & App Development: React.js, Next.js, Django, FastAPI, Flask, Express.js, Node.js, Tailwind CSS, Bootstrap, Material UI, ShadCN, Framer Motion

Machine Learning & Data Science: scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, OpenAI API, LangChain, Pandas, NumPy, Matplotlib, Seaborn, SHAP, LIME

NLP & Retrieval: spaCy, FAISS, SentenceTransformers, FinBERT, Regex, EasyOCR, DeepSeek API, Gemini API

Cloud & DevOps: AWS, GCP, Firebase, Vercel, Netlify, Render, GitHub Actions

Databases & Storage: MySQL, MongoDB, MongoDB Atlas, Firebase Firestore, Supabase

Tools & Platforms: Git, GitHub, Postman, Figma, VS Code, REST APIs, SSH

Soft Skills: Leadership, Event Management, Public Speaking, Team Management

EDUCATION

Vellore Institute of Technology, Chennai
B.Tech Computer Science and Engineering

Sep 2022 – July 2026
CGPA: 8.38

College Activities:

- **Microsoft Innovations Club – Team Member:** Coordinated 10+ events with cross-functional teams, increasing participation by 20% and workflow efficiency by 15%..
- **Google Developer Student Club – Team Member:** Collaborated with the finance team on *DevsHouse*, a national hackathon; contributed to sponsor/stakeholder coordination and event success.
- **Entrepreneur Cell Club - Team Member:** Collaborated with the marketing team to host a webinar on “How to make a successful Startup” for all students with a Special Guest Host.

PROJECTS

STUDY-NOTION LEARNING MANAGEMENT MODEL [[Github-Frontend](#)] [[Github-Backend](#)]

A full-stack ed-tech platform enabling course creation, enrollment, and secure payments with role-based access and media management.

- Designed and implemented a scalable backend architecture for an ed-tech platform enabling authentication, course lifecycle management, and secure online payments.
- Built and deployed over 25+ RESTful APIs supporting dynamic course creation, section management, file uploads (PDF/videos), and student progress tracking.
- Engineered admin, instructor, and student user roles using JWT tokens, role-based access control (RBAC), and secure route guards.
- Integrated Razorpay with HMAC signature verification to enable seamless course purchases and webhook-based order status tracking.
- Utilized Cloudinary SDK for optimized media storage (images, videos) and Mongoose ODM for robust schema design with validation middleware.

STOCK PRICE PREDICTION-LSTM [[Github](#)]

An LSTM network to predict future stock prices based on historical time-series data.

- Engineered an LSTM-based time-series forecasting model for stock price prediction, leveraging sequential deep learning with TensorFlow/Keras.
- Orchestrated data ingestion, normalization, and sliding-window preprocessing pipelines for temporal modeling.
- Achieved robust convergence with low validation error; visualized predictive accuracy via comparative trend plots.
- Modularized architecture for multi-ticker adaptability and potential real-time deployment.

GemVAE: Graph Enhanced Multi-Modal Variational Autoencoder [[Github](#)]

A graph-based deep learning model designed to enhance feature representations using structured relational data.

- Developed a graph-enhanced neural network model incorporating graph convolutional architectures (GCNs) to improve relational feature learning.
- Leveraged PyTorch Geometric and a network to model and process node-edge relationships for enhanced prediction accuracy.
- Engineered data preprocessing and graph construction pipelines to convert raw input into adjacency matrices and feature vectors.
- Achieved performance improvements over baseline models by capturing topological dependencies and structural information in the data.
- Designed the framework for extensibility across domains like social networks, knowledge graphs, and recommender systems.

MEDICAL CHATBOT GEN-AI [[Github](#)]

A generative AI-powered medical chatbot providing context-aware responses to health-related queries using large language models.

- Built a generative AI-based medical chatbot leveraging OpenAI's GPT architecture to deliver contextually relevant and safe responses to user health queries.
- Integrated real-time chat interface using Streamlit, enabling seamless user interaction with backend LLM-based response generation.
- Designed prompt-engineering strategies and context memory management to improve coherence and reduce hallucinations.
- Modularized architecture to support future integration with EHR systems and symptom checkers for enhanced clinical utility.

CERTIFICATIONS

- FullStack Web Development Apna College Mar 2024 [[Link](#)]
- Machine Learning Specialization Stanford Online Coursera Jun 2024 [[Link](#)]
- Deep Learning Specialization DeepLearning.ai Coursera Oct 2024 [[Link](#)]
- Natural Language Processing Specialization DeepLearning.ai Coursera Feb 2025 [[Link](#)]