Eesh Khanna

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GitHub: github.com/Eesh-487

Education

- **Bachelor of Technology (B.Tech) in Computer Science and Engineering**
  Manipal University Jaipur *August 2022 – Present*
  CGPA: 8.36
- **High School**
  Delhi Public School, Vasant Kunj *April 2008 – May 2022*
  Class 12: 90% Class 10: 87%

Technical Skills

- **Languages:** Python, JavaScript, SQL, HTML, CSS
- **Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, LangChain, PennyLane, ReAct
- **Tools/Platforms:** Flask, Node.js, Express.js, ReactJS, MongoDB, MySQL, RESTful APIs, OAuth, Multer, Postman, Git
- **Environments:** Jupyter Notebook, Anaconda, Visual Studio

Professional Experience

- **Summer Intern** *May 2025 – July 2025*
  Dell Technologies, Bengaluru, India
  Tech Stack: Python, Flask, ReAct Agentic AI Framework, LangChain, LangGraph, REST APIs
  - Designed and deployed agentic AI workflows to automate supply chain operations, reducing manual effort by 70%.
  - Integrated intelligent agents into logistics platforms using MCP servers, enabling real-time query resolution and anomaly detection.
  - Collaborated across product and engineering teams to iteratively refine agent behavior through test-driven development and continuous feedback.
- **Full-stack Development Intern** *July 2024 – August 2024*
  ThirdEye-AI (A JBM Group Company), Gurugram, India
  Tech Stack: Node.js, Express.js, MySQL, React.js, Multer
  - Built a document management platform with secure file handling and RBAC-based API access, improving data governance and upload reliability.
  - Improved backend efficiency and maintainability by modularizing routes and optimizing SQL queries for faster retrieval.

Technical Projects

- **Disaster Reporting Tool** *ReactJS, NodeJS, ExpressJS, MySQL, Python, Flask, Scikit-learn, SBERT, Folium, Matplotlib*
  Link : disasterfront.vercel.app
  - Developed a disaster reporting website with REST APIs and RDBMS models for efficient event submission, storage, and filtering.
  - Engineered a multi-stage verification pipeline combining geospatial analysis, SBERT-based text similarity, and news evidence scoring, with weighted confidence and visual analytics for robust
- **Quantum-Enhanced LSTM Forecasting Model** *TensorFlow, PennyLane, Python*
  - Designed a hybrid LSTM time-series model with a custom Quantum-Enhanced Adam Optimizer, improving prediction accuracy by 7% on financial datasets.
  - Leveraged PennyLane quantum circuits to generate parameterized gradients for adaptive learning.
- **LegalBot – LLM-powered Legal Document Assistant** *LangChain, FAISS, Python, OpenAI API, Streamlit*
  - Built an AI assistant for legal documents using LangChain and RAG, allowing users to query contracts and policies in natural language.
  - Implemented document chunking, vector embedding with FAISS, and a Streamlit UI for semantic search and clause retrieval.
- **Stock Portfolio Analytics Platform** *Node.js, Express.js, PostgreSQL, React.js, Yahoo Finance API*
  Link : stocks-frontend-wheat.vercel.app
  - Developed a full-stack platform for real-time stock portfolio management, performance analytics, and risk assessment with live market data integration.
  - Engineered backend services for portfolio optimization, historical performance tracking, and dynamic asset allocation visualization.

Patents and Publications

- **A Multi-Modal Disaster Verification System Using Geospatial, Textual, and Real-Time News Analysis** *Application No.: 202511074034 A, Published: Aug 2025*
  - Co-invented a disaster verification system integrating **geospatial analysis**, **NLP**, and **real-time news validation**, reducing false alarms and improving incident accuracy.
  - Developed an intelligent **confidence-scoring mechanism** optimized for **scalability, cost-effectiveness, and rapid integration** into disaster management platforms for real-time emergency response.

Certifications

- Data Structures and Algorithms in Java — NPTEL (IIT Kharagpur)
- Software Testing — NPTEL (IIT Kharagpur)