

# Eesh Khanna

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Portfolio: eeshkhanna.me

GitHub: github.com/Eesh-487

## Technical Skills

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- **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

## Professional Experience

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- **Software Developer Intern** *October 2025 – Present*  
**LumberFi**, Bengaluru, India  
*Tech Stack:* Java, Spring Boot, React.js
  - Developing a payroll management system for construction companies in Canada as part of the Canadian Payroll Team.
  - Building and integrating backend services with Spring Boot and frontend modules in React to streamline payroll operations and ensure compliance accuracy.
- **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 using the ReAct framework to automate supply chain operations, reducing manual effort by 70%.
  - Integrated intelligent agents into logistics platforms via MCP servers for real-time anomaly detection and collaborated with cross-functional teams to refine agent behavior through test-driven development.
- **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

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- **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*
  - Developed a disaster reporting platform with REST APIs and relational database models for efficient event collection, storage, and filtering. Engineered a multi-stage verification pipeline using geospatial analysis, SBERT-based text similarity, and news evidence scoring to increase report accuracy.
- **LegalBot – LLM-powered Legal Document Assistant** *LangChain, FAISS, Python, OpenAI API, Streamlit*
  - Designed a hybrid LSTM model with custom Quantum-Enhanced Adam Optimizer, improving financial dataset prediction accuracy by 7%. Utilized PennyLane quantum circuits to generate parameterized gradients supporting adaptive learning rates.
- **Stock Portfolio Analytics Platform** *Node.js, Express.js, PostgreSQL, React.js, Yahoo Finance API*  
Link : stocks-frontend-wheat.vercel.app
  - Built an AI-powered assistant for querying legal documents in natural language using LangChain and RAG methodologies. Implemented document chunking, vector embedding with FAISS, and a Streamlit-based UI for efficient semantic search and clause retrieval.

## Patents and Publications

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- **A Multi-Modal Disaster Verification System Using Geospatial, Textual, and Real-Time News Analysis** *Application No.: 202511074034 A, Published: Aug 2025*
  - Invented a scalable multi-modal disaster verification system integrating geospatial analysis, NLP, and real-time news validation with an intelligent confidence-scoring mechanism, reducing false alarms and enabling rapid, cost-effective deployment in emergency response platforms.

## Education

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

## Certifications

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