

Manoj Kumar Eede

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[GitHub](https://github.com/Manoj4689) | [LinkedIn](https://linkedin.com/in/manojkumareede)

Skills

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

Technologies & Tools: Spring Boot, Flask, ReactJS, MySQL, Azure, Kubernetes, Redis, Docker, Splunk, GitHub Actions

Work Experience

Adobe, Noida

Sept 2024 - Present

Member of Technical Staff II | Jan 2026 - Present

- Leading an **AI-based image processing service** for scalable PDF digitization and intelligent document understanding.
- Orchestrated external rollout and monetization of PDF conversion backend services as a **Java REST API**; engineering multi-language SDKs (Java, Python, .NET, Node.js), projected to generate **\$1M ARR** in the initial phase.

Member of Technical Staff | Sept 2024 - Jan 2026

- Architected and led 0-to-1 development of production-grade **PDF to Markdown** and **Markdown to PDF** pipelines across **distributed systems**, spanning a Python-based OCR engine, scalable Java microservices, and a React-based visual playground with token-based throttling; enabling AI/LLM-driven document workflows.
- Integrated high-throughput PDF conversion workflows into **ChatGPT's Acrobat SDK (MCP tools)**, enabling AI-assisted PDF creation and unstructured data extraction at scale.
- Owned feature development and reliability improvements for Adobe's **Java-based DocGen API**, reducing error rates to **<0.01%** across **300K+ monthly enterprise transactions**.
- Built a **GenAI-powered financial document assistant** using an end-to-end Retrieval Augmented Generation (**RAG**) pipeline for extraction, reasoning, and insight generation.
- **Tech Stack:** Java, Python, ReactJS, ArgoCD, Kubernetes, Docker, LangChain

Asper.ai, Bangalore

June 2024 - Sept 2024

Data Scientist

- Led end-to-end client engagement for a **\$3M** contract with a leading US-based CPG company (1,000+ SKUs), spanning EDA, forecasting algorithm design, and post-production RCA; improved in-line demand planning accuracy by over **10%**, enabling more precise and granular forecasting.
- Designed and implemented **scalable ML system design frameworks** to improve efficiency and model deployment.
- **Tech Stack:** Python, Tensorflow, Scikit-learn, Azure, Kubernetes, MLOps

Adobe Research Lab, Bangalore

May 2023 - July 2023

Research Intern

- Fine-tuned **Flan-T5** and used **BERT** for **Controlled and Grounded Text Generation** to enhance reviewer efficiency.
- Developed an **Automated Commenting Pipeline** using **Advanced NLP & Embedding methods**; benchmarked against pre-trained & fine-tuned baselines, achieving **>15%** higher accuracy on our curated NLPeer data. Finally integrated it into the Adobe's GenAI framework.
- **Tech Stack:** Python, Flask, ReactJS

Education

IIT Roorkee

July 2019 - May 2024

Integrated Masters in Mathematics and Computing (Applied Mathematics)

CGPA: 8.78/10

Relevant Coursework: Object Oriented Programming, Database Management System, Data Structures and Algorithms, Operating Systems, Discrete Mathematics, Graph Theory, Digital Image Processing, Non Linear Programming

Project Work

- **FinGen - AI Powered Investment Assistant (2024-2025):** Built a full-stack AI-driven financial analysis platform for Indian markets, delivering stock insights, sentiment analysis, and portfolio tracking.
 - Implemented **FinBERT** based sentiment analysis and a **multi-agent AI system** with token-aware load balancing using liteLLM and the Groq API for real-time inference, backed by a **SQL database** for watchlist and portfolio store.
 - Improved system efficiency through intelligent caching, achieving a **70% reduction in API calls**, and automated reliability monitoring via **GitHub Actions**, maintaining **99% uptime** on Hugging Face Spaces.

Tech Stack: PyTorch, Transformers, Streamlit, Supabase (SQL), Pandas, GitHub Actions, Web Scraping

Awards and Scholarships

- **SPOT Award (2025):** Received the Spot Award from Adobe for exceptional performance.
- **INSPIRE Scholarship from DST, MHRD (2019-2024):** Awarded to top 1% students nationwide in pure sciences.
- **Max Ratings Achieved:** Codeforces- **1663 | Expert** (Handle: codehacker4689), Leetcode- **2047** (Handle: 19312009)

Publications

- Madhu Jain, **Eede Manoj Kumar**, Nidhi Sharma.
Demand Forecasting Using Statistical Machine Learning Models.
In *Advanced Machine Learning and Evolutionary Computing Algorithms for Financial Decision-Making*, edited by D.K. Sharma, H.S. Hota, and K. Brown. **Springer Nature, forthcoming (2026).**

Open Source Contributions

- **Docx4j: Corrupted Documents Fix** 
Identified and helped resolve a critical issue in the widely used open-source Docx4j library, preventing DOCX file corruption during processing. The fix was merged and is now part of the library's release.

Courses and Certifications

- AI Agents Certification on Hugging Face
- Model Context Protocol Certification on Hugging Face
- Time Series Analysis, Forecasting, and Machine Learning Certification on Udemy
- Deep Learning Specialization on Udemy
- Machine Learning Regression Master Class in Python on Udemy