

# Manoj Kumar Eede

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## Skills

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

**Technologies & Tools:** Spring Boot, Flask, React, 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 **core 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, React, Argo CD, Kubernetes, Docker, Splunk, Prometheus, Redis, 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, PyTorch, Flask, React

## Education

### IIT Roorkee

July 2019 - May 2024

**CGPA: 8.78/10**

Integrated Masters in Mathematics and Computing (Applied Mathematics)

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

2025 - 2026

- Built a full-stack agentic AI platform powering Indian stock market insights, sentiment analysis, and portfolio tracking.
- Deployed on Hugging Face Spaces; optimized performance through load balancing, caching and CI/CD monitoring.
- **Tech Stack:** PyTorch, SmolAgents, Transformers, Supabase (SQL), GitHub Actions (CI/CD), Streamlit, LiteLLM

### • CommerceHub - Cloud-Native E-Commerce Platform

2024

- Built a cloud-native e-commerce platform with product, cart, order, and secure checkout using OAuth 2.0 and JWT.
- Implemented a React frontend and Spring Boot backend with Redis caching, PostgreSQL, and unit testing.
- **Tech Stack:** Java, Spring Boot, ReactJS, Redis, PostgreSQL, Docker, JUnit

## Awards and Scholarships

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- **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

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- 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

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- **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

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- 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