

OM JAIN

AI Engineer | Deep Learning & LLMs

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SUMMARY

AI Engineer specializing in Deep Learning, LLMs, and Applied Machine Learning. Proficient in Transformer architectures, RNN-based models, and computer vision using TensorFlow and PyTorch. Strong foundation in algorithms, mathematical modeling, and end-to-end deployment of intelligent systems. Designing scalable AI pipelines integrating data preprocessing, model optimization, and high-performance inference for real-world applications.

EDUCATION

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|---------------------------------------------------------------------------------------------|------------------------------|
| • Indian Institute of Technology, Kharagpur
<i>B.Tech. (Hons.), Chemical Engineering</i> | 2023 – 2027
CGPA: 8.33/10 |
| • Denialson (E.M.) H.S. School, Chhindwara
<i>Class XII (M.P. Board)</i> | 2023
Percentage: 88% |

PROJECTS

- Document Intelligence Q&A System (RAG-based)** [GitHub](#)
• Engineered document Q&A via transformer embeddings for PDF queries at $\sim 3\text{s}$ latency and high accuracy
- Mini Transformer-Based Character-Level Language Model** [GitHub](#)
• Built compact decoder-only Transformer in TensorFlow with 4 layers and 4 heads for next-char prediction
- U-Net Based Image Denoising Pipeline** [GitHub](#)
• Built U-Net image denoising model trained on 5k noisy/clean pairs, achieved $\sim 30 \text{ dB}$ PSNR on validation-set
- Time Series Demand Forecasting (LSTM & GRU)** [GitHub](#)
• Trained LSTM, GRU, and seq2seq models for demand forecasting by TensorFlow on airline passenger dataset
- Built automated CLI with early stopping and reproducibility across 1k epochs, achieving sub-30% RMSE

SKILLS AND EXPERTISE

- **AI & ML Frameworks:** TensorFlow | PyTorch | Keras | scikit-learn | XGBoost | OpenCV
- **Programming Languages:** Python | C++ | JavaScript | TypeScript | SQL
- **Core ML Concepts:** Deep Learning | LLMs | NLP | Computer Vision | Transformers | RNNs | Self-Attention
- **MLOps & Deployment:** Docker | AWS | Git | GitHub | FastAPI | REST APIs | Model Optimization
- **Data Science Stack:** NumPy | Pandas | Matplotlib | Seaborn | Data Preprocessing | Feature Engineering
- **Development Tools:** VS Code | Jupyter | Google Colab | Linux | Local GPU Training | Kaggle | HuggingFace

FULL-STACK ENGINEERING (SECONDARY SKILLS)

- Built MERN-stack apps with 25+ REST APIs, CRUD, JWT, and optimized backend latency under 200ms
- Developed reusable React components & implemented state management with Redux Toolkit improving UI

SELECTED COURSEWORK

Deep Learning | Machine Learning | Natural Language Processing | Generative AI | Probability & Statistics | Linear Algebra | Optimization | Data Structures & Algorithms | Computer Vision | Database Management Systems

ACHIEVEMENTS

- Ranked at top 15% on Codeforces; solved 450+ algorithmic problems across LeetCode, AlgoZenith, and GfG
- Gold in Product Management GC 2024–25 leading AI-based insurance app architecture with automations
- Secured branch change with 8.69 CGPA, ranked top 5% among 1800+ students showing academic excellence

EXTRACURRICULARS

- **Sports:** Football team, NSO; organized institute-wide tournaments fostering collaboration and campus wellness
- **Tech:** Participated in GC & Open IIT events (Case Study, Data Analytics, Product Design & Management)
- **Cultural:** Contributed to Rangoli & Illumination 2024 and competed in Spring Fest E-Sports (BGMI)