

Hemank Kumar

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EXPERIENCE

- AI/ML Intern** | *Tiara Rides* May 2025 – Jul 2025
- Engineered predictive ML models for vehicle mileage and insurance risk using TensorFlow and Scikit-learn.
 - Built end-to-end ML pipelines covering preprocessing, feature engineering, model training, evaluation, and deployment with FastAPI and Streamlit.
- Freelance Developer** | *Digicroz* Mar 2026 – Apr 2026
- Developed responsive web and mobile features using React, React Native, and TypeScript.
 - Integrated REST APIs with TanStack Query to optimize data fetching and application performance.
- Head of Technical Projects** | *IEEE Computer Society* May 2025 – Apr 2026
- Led technical planning for 10+ hackathons, competitions, and workshops involving 1,000+ participants.
 - Coordinated technical teams, infrastructure ensuring seamless execution of multiple flagship IEEE events.

PROJECTS

- Dashance** | *Next.js, TypeScript, MongoDB, React, JWT* [Demo](#)
- Developed a full-stack personal finance platform supporting 25+ active users with secure JWT authentication, budgeting, savings goals, and transaction management.
 - Optimized dashboard performance by nearly **2×** by isolating API calls into dedicated React Contexts.
 - Designed REST APIs and MongoDB schemas for transactions, budgets, goals, and personalized financial insights.
- Transformer From Scratch** | *Python, TensorFlow, Deep Learning, NLP* [GitHub](#)
- Implemented a 661K-parameter decoder-only Transformer from scratch with custom tokenization, positional encoding, and multi-head self-attention.
 - Built training and inference pipelines on 4,000+ SQuAD pairs for autoregressive text generation.
 - Developed custom masking, embedding, and sequence generation modules without relying NLP frameworks.
- ClearReport** | *FastAPI, React, LangChain, Llama, Pinecone* [GitHub](#)
- Developed an AI-powered medical report analyzer using OCR, LLMs, and contextual explanations.
 - Built a Retrieval-Augmented Generation (RAG) pipeline using LangChain, Llama, and Pinecone for medical Q&A.
 - Extracted, structured, and visualized **7+** key blood biomarkers from diagnostic reports using OCR, LLMs, and FastAPI.

EDUCATION

- Manipal University Jaipur** Jaipur, Rajasthan
B.Tech in Computer Science and Engineering (AI & ML) **CGPA: 9.57**
- City Montessori School** Lucknow, Uttar Pradesh
Class XII (PCM with Computer Science) (ISC) **SCORE: 91.25%**
- St. Francis' College** Lucknow, Uttar Pradesh
Class X (ICSE) **SCORE: 82.00%**

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, TypeScript
Core Computer Science: Data Structures & Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems, Computer Networks
Machine Learning & AI: TensorFlow, Scikit-learn, Hugging Face, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), LangChain, OpenCV
Web Technologies: React.js, Next.js, Node.js, Express.js, FastAPI, Flask, REST APIs, Tailwind CSS, GSAP
Databases: MongoDB, Supabase, MySQL
Cloud, Deployment & Tools: AWS, Git, GitHub, Render, Vercel, Netlify, Streamlit

ACHIEVEMENTS

- 3rd Place:** Hackerzstreet National Hackathon among 500+ participants.
- Smart India Hackathon (SIH) 2025:** Shortlisted for the internal university round.
- Dean's List:** Awarded for academic excellence across **4 consecutive semesters**, achieving a **9.95 GPA** in the 4th semester.
- Class Committee Member:** Student representative coordinating with faculty.