



Vatsal Kumar

Registration No.: 20232057

Bachelor of Technology

Chemical Engineering

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EDUCATION

- Motilal Nehru National Institute of Technology Allahabad, Prayagraj** 2023-2027
Bachelor of Technology in Chemical Engineering CPI: 7.01(till 4th semester)
- Saraswati Vidya Mandir** 2022
12th, Central Board of Secondary Education, Bihar Percentage: 92.4
- ISMA Public School** 2020
10th, Central Board of Secondary Education, Bihar Percentage: 86.6

EXPERIENCE

- Avicen AI - Live** June 2024 – January 2025
Tech Intern Prayagraj, MNNIT
 - Developed frontend for Cograd's Shark Tank-featured website using Next.js and MongoDB, improving performance by 35%. - **Live**
 - Built a real-time AI chatbot using NLP and Express.js to enable seamless natural language interactions.
 - Engineered a robust backend for a health consultancy app using Node.js, REST APIs, Sockets, and Express, streamlining user workflows - **Github**
- Nostavia Health Pvt. Ltd. - Live** February 2025 – Present
Tech Intern Lucknow, India
 - Developed a full-stack healthcare platform using Next.js 14, Node.js, MongoDB, and 35+ REST APIs, serving 1000+ users with <100ms API latency.
 - Integrated Google Gemini (AI reports), Microsoft Graph (Teams meetings), and PhonePe (secure payments).
 - Developed 40+ reusable components, implemented JWT & Google OAuth, and deployed on Azure with 99.9% uptime (HIPAA-compliant).

PERSONAL PROJECTS

- LegalAI - Live, Github**
Next.js, Node.js, MongoDB, Docker, Tesseract.js, LangChain, ChromaDB, Cloudinary
 - Automated legal document review, reducing analysis time by 80% through AI-driven clause extraction, summarization, and risk flagging.
 - Built a contextual chatbot with >92% accuracy, enabling semantic document Q&A & PDF exports of chat history.
 - Delivered an optimized web app with 99 Performance, 100 Accessibility, 96 Best Practices, and 100 SEO scores.
- Chanet - Live, Github**
NextJS, ExpressJS, MongoDB, Gemini 2.0, Kaggle API, Sockets.io, Optuna
 - Built a full-stack web app with NextJS and ExpressJS, achieving 96 Performance and 100 SEO score.
 - Auto-generated ML model code and optimized parameters using Gemini 2.0 and Optuna. Integrated GitHub OAuth for authentication with one-click .ipynb downloads. Used Kaggle API to recommend datasets, simplifying model development.
 - Developed an end-to-end system for ML model creation with dataset recommendations and seamless download integration.

TECHNICAL SKILLS

Languages: JavaScript, HTML, CSS, C++, TypeScript, Python

Developer Tools: Git, VS Code, Arduino IDE, REST APIs, GitHub Actions (CI/CD), Docker, Kubernetes

Frameworks and Libraries: React, Next.js, Express.js, Django, Tailwind CSS, Bootstrap, Socket.io

Cloud/Databases: MongoDB, MySQL, Azure VM, Neo4J, Google Cloud Run

AI/ML: Scikit-learn, TensorFlow, NLP, ANN, CNN, RNN, LSTM, Federated Learning, Langchain, LangGraph

POSITIONS OF RESPONSIBILITY

- Project Mentor**, Robotics Club MNNIT June 2025 - Present
- Web Team Member**, Institute Innovation Council (IIC) MNNIT August 2024 - Present
- Core Committee Member**, Steering Committee MNNIT August 2024 - Present

ACHIEVEMENTS

- 9th Position**, out of 300+ teams in Hack36'25 organised by Computer Coding Club April 2025
- Finalist**, SynthQuest'25 organised under Tryst'25 at IITD(Top 10 Nationwide) March 2025
- 6th Position**, out of 190+ teams in Webster'24 organised under CodeSangam in Avishkar'24 November 2024
- 3rd Position**, in Force Secure under Botrush organised by Robotics Club January 2024