# Vatsal Kumar

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## EDUCATION

**Motilal Nehru National Institute of Technology Allahabad, Prayagraj**   CPI: 7.13(till 3rd semester)
*Bachelor of Technology in Chemical Engineering*                                   *2023 – 2027*

**Saraswati Vidya Mandir**                                                    Percentage: 92.4
*12th, Central Board of Secondary Education, Bihar*                                        *2022*

**ISMA Public School**                                                       Percentage: 86.6
*10th, Central Board of Secondary Education, Bihar*                                        *2020*

## EXPERIENCE

**Avicen AI - *Live***                                                    June 2024 – Feb 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***                                        Jan 2025 – Present
*Tech Intern*                                                               *Prayagraj, MNNIT*
- Developed a full-stack healthcare platform using Next.js 14, Node.js, MongoDB, and 25+ 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).

## PROJECTS

**Chanet- Live, Github** | *NextJs, ExpressJS, MongoDB, Gemini 2.0, Kaggle API, Sockets.io*
- Engineered a high-performance full-stack web application using NextJS and ExpressJS, achieving 96 Lighthouse and 100 SEO scores, optimizing both speed and discoverability.
- Auto-generated ML model code and optimized parameters using Gemini 2.0 and Optuna.
- Integrated GitHub OAuth and enabled one-click .ipynb downloads with Kaggle-powered dataset recommendations.

**Illustrator MCP Server- Github, Demo** | *FastAPI, pywin32, ExtendScript, MCP, Claude Desktop, PIL library*
- Constructed an AI-integrated MCP server that converts natural language prompts into vector graphics inside Adobe Illustrator, reducing manual effort by 80%.
- Integrated Claude Desktop with Illustrator via a FastAPI server for real-time AI-driven design automation.
- Automated prompt-to-ExtendScript conversion, achieving 90% script success rate.

## TECHNICAL SKILLS

**Languages**: JavaScript, TypeScript, Python, C++, HTML, CSS
**Developer Tools**: Git, VS Code, Arduino IDE, REST APIs, GitHub Actions (CI/CD), Aceternity UI
**Frameworks and Libraries**: React, Next.js, Express.js, Django, Tailwind CSS, Bootstrap, Socket.io
**Cloud and Databases**: MongoDB, Azure VM, Neo4J, Google Cloud Run
**AI/ML**: Scikit-learn, TensorFlow, NLP, ANN, CNN, RNN, LSTM, Federated Learning

## POSITIONS OF RESPONSIBILITY

- Developed and launched the **Udbhav event website**, increasing student registration efficiency **by 40%**
- Coordinated and executed the farewell event for a large-scale farewell event with **1100+ attendees**
- Headed both the creative and technical teams for **Botrush'25**, Robotics Club MNNIT

## ACHIEVEMENTS

- Finalist, SynthQuest'25 – Tryst'25, IIT Delhi (Top 10 nationwide)                     March 2025
- 6th out of 190+ teams in Webster'24 organsied under CodeSangam in Avishkar'24-25   November 2024
- 3rd Position in CodeIndrome - Rasayans, Avishkar 2024                                March 2024
- 3rd Position in Force Secure under Botrush, Robotics Club(Hardware+Software challenge)  January 2024