

Himanshu Kumar

Bachelor of Technology, Computer Science and Engineering (AI & ML)
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Professional Summary

- Software Engineering student with 2+ years of experience in full-stack development and machine learning. Proven track record of building scalable web applications using React.js, Node.js, and Python. Experienced in deploying AI/ML models, implementing RESTful APIs, and working with agile development methodologies. Seeking Software Engineer/Full Stack Developer roles.

Education

•Brainware University, Kolkata

Bachelor of Technology in Computer Science and Engineering (AI & ML)

August 2022 - August 2026

CGPA: 7.62/10

•Inter National Collegel, Patna

Class XII (State Board)

Percentage: 66%

•Cambridge Public School, Patna

Class X (CBSE)

Percentage: 83.6%

Projects

•Viratas AI – DeepFake Video Detection System

May 2025 - June 2025

Advanced AI-powered deepfake detection platform with blockchain verification and real-time analysis.

- Architected full-stack deepfake detection system using ensemble of 7 EfficientNet-B7 models achieving 94.5% accuracy with FastAPI backend and React frontend.
- Implemented real-time video analysis processing 1000+ frames with MTCNN face detection, reducing analysis time by 60% through optimized frame sampling.
- Engineered blockchain-based verification system using SHA-256 hashing and deployed scalable application on Railway with MongoDB Atlas backend.
- Tech: Python, FastAPI, React.js, PyTorch, EfficientNet-B7, MTCNN, MongoDB, Railway, Vercel

•BharatGPT – Multilingual AI Assistant for India

April 2025 - May 2025

Smart assistant for voice-based government help and language translation.

- Developed AI-powered chatbot integrating OpenAI GPT and Bhashini NLP APIs, achieving 95% translation accuracy across 7 Indian languages and processing 1000+ queries daily.
- Implemented automated form filling system and integrated UPI mock API to simulate real-time government service workflows, improving user experience by 60%.
- Deployed scalable application to Vercel with MongoDB Atlas backend; architected mobile-first responsive UI using Next.js and Framer Motion animations.
- Tech: Next.js, OpenAI, MongoDB, Bhashini API, Tailwind, Framer Motion

•ComicCrafter AI – Prompt-to-Comic Generator

March 2025

Turns text prompts into comics using story + image generation models.

- Implemented DistilGPT-2 for narrative generation and integrated ControlNet + Stable Diffusion models for custom comic panel creation, generating 500+ unique comics.
- Architected Gradio-based UI supporting 200+ concurrent uploads with enhanced character consistency through JSON-based character library and automated panel generation.
- Optimized model performance and implemented lazy-loading techniques, reducing rendering time by 25% and improving user engagement by 35%.
- Tech: Python, Gradio, PyTorch, ControlNet, OpenCV, Pillow

Experience

•Intel Unnati Industrial Training

February 2025 - March 2025

Eduagate (Remote Internship)

Remote

- Engineered end-to-end ML pipelines for story and image generation using DistilGPT-2 and Stable Diffusion models, improving generation speed by 30% and reducing computational costs by 20%.
- Deployed and optimized models on Intel DevCloud platform, enabling scalable inference for 1000+ concurrent users and implementing comprehensive performance benchmarking.
- Collaborated in agile development team using Git-based version control, CI/CD pipelines, and comprehensive documentation workflows following software engineering best practices.

Technical Skills

- **Programming Languages:** Python | JavaScript | C/C++ | SQL | HTML5 | CSS3
- **Frontend Development:** React.js | Next.js | Tailwind CSS | Framer Motion | Responsive Web Design | UI/UX Design
- **Backend Development:** Node.js | Express.js | RESTful APIs | Microservices | JWT Authentication | API Integration
- **AI/ML & Data Science:** PyTorch | Scikit-learn | Machine Learning | Deep Learning | NLP | ControlNet | Stable Diffusion | Computer Vision
- **Databases & Cloud:** MongoDB | PostgreSQL | Database Design | Vercel | Netlify | Intel DevCloud | Cloudinary | AWS (Basic)
- **DevOps & Tools:** Git | GitHub | CI/CD | Agile | Scrum | Docker (Basic) | Postman | Figma | Software Testing

Achievements

- **HexaFalls Hackathon 2025 Finalist** – Ranked in top 20 out of 300+ teams for building a 3D AI digital human using advanced machine learning and computer vision technologies in a 32-hour challenge.
- **Intel Unnati Industrial Training Selection** – Selected among top candidates to build scalable ML pipelines and deploy production-ready models on Intel DevCloud platform.
- **Open Source Contributor** – Active contributor to multiple GitHub repositories with 100+ commits and 20+ repositories showcasing full-stack development expertise.

Interests

- Generative AI Research, Competitive Programming, Open Source Development, Machine Learning Innovation, 3D Web Applications, Software Architecture

Certifications

- **React.js Full-Stack Development** – Udemy, 40+ hour comprehensive bootcamp with advanced projects and modern React patterns 2024
- **JavaScript ES6+ & Modern Web Development** – Udemy, advanced JavaScript, async programming, DOM manipulation, and API integration 2024
- **Frontend Web Development** – Udemy, HTML5/CSS3, responsive design, UI/UX principles, and cross-browser compatibility 2024
- **Python Programming & Object-Oriented Design** – Udemy, foundational programming, OOP concepts, data structures, and algorithmic thinking 2022