

ADITYA ANIL TIWARI

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Professional Summary

Full-Stack Developer and AI/ML enthusiast with expertise in Python development, web technologies, and geospatial analysis. Experienced in building scalable applications using React.js, Next.js, and modern backend frameworks. Strong foundation in data processing, image analysis, and automation. Passionate about leveraging LLM technologies and AI-driven solutions to solve complex problems. Proven track record in hackathons and collaborative development projects.

Education

Vellore Institute of Technology (VIT Bhopal) <i>Bachelor of Technology in Cloud Computing & Automation</i>	Aug 2024 – Apr 2028
• Relevant Coursework: Data Structures, Algorithms, Engineering Mathematics, Cloud Technologies	<i>Bhopal, India</i>

K. M. Agrawal Junior College <i>Higher Secondary Certificate (HSC)</i>	Aug 2022 – Feb 2024
	<i>Maharashtra, India</i>

Technical Skills

Programming Languages: Python, JavaScript, C++, HTML5, CSS3

AI/ML & LLM Tools: PyTorch, TensorFlow, Hugging Face Transformers, LangChain, OpenAI API, Prompt Engineering

Web Development: React.js, Next.js, Node.js, Express.js, RESTful APIs, Responsive Design

Data Science & Analysis: Pandas, NumPy, Scikit-learn, Matplotlib, Data Preprocessing, Feature Engineering

Geospatial Technologies: QGIS, Google Earth Engine (GEE), NDVI Analysis, Remote Sensing, Satellite Imagery Processing

Databases & Cloud: MongoDB, PostgreSQL, MySQL, AWS, Google Cloud, Firebase

Tools & Platforms: Git, GitHub, Docker, Jupyter Notebook, VS Code, Linux/Unix

Other Skills: Digital Image Processing, Algorithm Design, Agentic AI Systems, Web Scraping, API Development

Experience

Remote Sensing and GIS Intern <i>India Space Week</i>	Jul 2025 – Aug 2025
	<i>Remote</i>

- Conducted vegetation health mapping using NDVI analysis on satellite imagery for Bathinda district, Punjab
- Processed and analyzed large-scale geospatial datasets using Python, QGIS, and Google Earth Engine
- Applied digital image processing techniques and machine learning algorithms for image classification
- Developed automated workflows for satellite data preprocessing, feature extraction, and accuracy assessment

Junior Web Developer <i>OnlineSyndrome (Freelance)</i>	Sep 2021 – Dec 2022
	<i>Remote</i>

- Developed responsive web applications using React.js, HTML5, and CSS3 for diverse client requirements
- Collaborated with clients to understand requirements and deliver customized web solutions
- Implemented RESTful APIs and integrated third-party services to enhance application functionality

Projects

Agentic AI Automation System <i>Python, LangChain, OpenAI API, AI Agents</i>	Oct 2024
• Developed an intelligent automation system using agentic AI for the NASSCOM Hackathon (Top 240/5,743 teams)	

- Implemented multi-agent workflows leveraging LLMs for task decomposition and autonomous decision-making
- Integrated prompt engineering techniques and RAG (Retrieval-Augmented Generation) for context-aware responses
- Built scalable backend architecture handling real-time agent communication and task orchestration

Vegetation Health Mapping using NDVI <i>Python, QGIS, GEE, NumPy, Matplotlib</i>	Jul 2025 – Aug 2025
• Analyzed satellite imagery to assess vegetation health and distribution patterns using NDVI indices	

- Developed Python scripts for automated image preprocessing, band math calculations, and statistical analysis
- Implemented machine learning-based image classification achieving 92% accuracy in land cover detection
- Created interactive visualizations and comprehensive reports on vegetation stress and health indicators

Cisco Community VITB Website <i>React.js, Next.js, Node.js, MongoDB, TailwindCSS</i>	Feb 2025
• Designed and deployed a full-stack web platform for the Cisco Community with 500+ active users	

- Implemented authentication, event management, and real-time notification systems
- Optimized website performance achieving 95+ PageSpeed scores and improved SEO rankings
- Integrated analytics dashboard for tracking user engagement and community growth metrics

LLM-Powered Code Assistant | Python, Transformers, FastAPI, React.js**Ongoing**

- Building an AI-powered code completion and debugging assistant using fine-tuned language models
- Implementing context-aware code suggestions using encoder-decoder transformer architectures
- Developing RESTful API endpoints for real-time model inference and code analysis
- Optimizing model performance through quantization and efficient attention mechanisms

Achievements

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- Top 240 out of 5,743 teams in NASSCOM "Automation Using Agentic AI - Let Intelligence Take the Lead" Hackathon (2024)
 - Selected in TOP 50 out of 900+ submissions at the SIH Internal Hackathon (2024)
 - Secured a spot in the top 40 out of 250 talented teams in Codeverse Hackathon
 - Department Topper for 4th Semester in Cloud Computing & Automation at VIT Bhopal
 - Successfully built and deployed first machine learning model for predictive data analysis

Certifications

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- Certified Software Development Professional - Udemy
 - Frontend Developer (React) - HackerRank (Credential ID: AB04EB31A82C) - Sep 2024
 - Summer Training Programme on Remote Sensing and GIS - India Space Week (ID: 600201) - Aug 2025
 - Fundamentals of AI/ML - Vityarthi
 - Python Essentials - Vityarthi

Leadership & Involvement**Technical Team (Web)****Aug 2025 – Present***VIT Bhopal**Null VIT Bhopal Student Chapter*

- Developing and maintaining web applications using React.js and Next.js for the student technical community
- Implementing responsive UI/UX designs and optimizing application performance for enhanced user experience
- Collaborating with cross-functional teams to deliver high-quality technical solutions and event platforms

Technical Team Member**Nov 2024 – Present***VIT Bhopal**Cisco Community VIT Bhopal*

- Designed and developed the official Cisco Community VITB website, facilitating collaboration among 500+ students
- Built scalable web applications using modern JavaScript frameworks and best practices in web development
- Implemented automation scripts and tools to streamline community engagement and event management