

Vaibhav Suman

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SUMMARY

Full Stack Engineer skilled in **Python, JavaScript**, and **AWS**, with expertise in building scalable cloud-native systems and data-driven ML applications. Proven ability to design reusable solutions, optimize workflows, and lead cross-functional teams. Published researcher in AI (Springer Journal) and **winner of Kavach 2023 Hackathon (Govt. of India)**. Adept at **collaborating with research teams** to translate cutting-edge ML into production-grade applications.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, Java, SQL, HTML5, CSS3
- **Frameworks/Tools:** Next.js, React.js, Angular, Tailwind CSS, Node.js, Django, TensorFlow, PyTorch
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, CI/CD
- **Database:** MySQL, MongoDB, PostgreSQL, SQL Servers
- **ML/AI:** Machine Learning, Deep Learning, Computer Vision, NLP, Generative AI, LLM, Scikit-Learn, Pandas, NumPy
- **Tools:** Git/GitHub, Jupyter, Cursor AI, VS Code, Linux, Unix, Mac, Window

EXPERIENCE

Machine Learning Internship	NIT Bhopal	On-Site	11/2023 – 05/2024
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- Built **high-throughput ML pipelines** improving project efficiency by 18% through collaboration with 10+ researchers.
- Engineered a **Bi-LSTM inference model** (98% accuracy) for fake news detection, published in *Springer Journal*.
- Reduced **image processing latency by 40%** and boosted accuracy by 30% using optimized CV/NLP models.
- Mentored peers on **ML best practices** and **scalable system design**, demonstrating technical leadership.

PROJECTS

Resumide | React, TypeScript, Puter, Docker [🔗](#)

- Engineered **full-stack web app** with React 19, TypeScript, and PDF.js, delivering **real-time ATS scoring** for **500+ resumes**.
- Designed **secure file upload & authentication system**, reducing processing errors by **30%** and improving reliability for **100+ active users**.
- Deployed **containerized app with Docker** using multi-stage builds, enabling **99.9% uptime** and scalable deployment across AWS.

SummarIQ | Next.js, React, TypeScript, Google Gemini, MongoDB [🔗](#)

- Built an **AI-powered meeting notes summarizer** integrating **Google Gemini API** for intelligent, context-aware outputs.
- Designed a **scalable full-stack system** with secure storage (MongoDB Atlas), file ingestion (DOCX/TXT), and email sharing.
- Delivered a **modern, responsive UI** with Tailwind CSS & shaden/ui, including a rich text editor for customizing AI summaries.

Airbnb Full-Stack Booking Platform | React, Django, AWS [🔗](#)

- Designed a **scalable, cloud-native booking system** deployed on AWS, supporting 10,000+ listings.
- Optimized API performance, achieving **30% lower latency** and robust **role-based access controls** for security.

Robust Human Detection | Python, CNN-LSTM, OpenCV [🔗](#)

- Developed a **hybrid real-time detection pipeline** achieving 90% accuracy in low-light scenarios.
- Enhanced **parallel processing efficiency by 25%** across 1,000+ video sequences.

EDUCATION

B. Tech in Computer Science (AIML)	LNCT University	Bhopal, India	12/2020 – 05/2024
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- CGPA- **8.24**
- **Relevant Coursework:** Data Structure & Algorithms, DBMS, RDBMS, OOPs, AIML

PUBLICATIONS

Fake News Detection Using ARO and LSTM

Journal: Springer Natural Computer Science (SN Computer Science)

- Implemented methods for processing diverse content types, achieving 99% detection accuracy with ARO and LSTM algorithms, helping to reduce the spread of false information.

ACHIEVEMENTS

- **Winner, Kavach Hackathon 2023:** Led a team to design a cybersecurity tool for MHA compliance, showcasing expertise in secure data handling.
- **Top 6% Global Hackathon Rank:** Recognized for innovative problem-solving in MLH open-source competitions.

CERTIFICATIONS

- **JP Morgan Chase & Co.** Software Engineering Job Simulation by [Forage](#)
- **IBM Full Stack Software Developer Professional Certificate** by [Coursera](#)
- **Python for Data Science, AI & Development** by [Coursera](#)