

Vaibhav Sharma

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SUMMARY

Final-year Dual Degree student at BITS Pilani (BE Chemical, MSc Mathematics) with experience as an SDE intern across fintech, NRI wealth management and voice-AI products. Strong in Python, Java, Django, SQL and machine learning workflows, with hands-on work in RESTful APIs, backend services, and production-ready integrations with third-party platforms. Interested in software engineering, backend systems, and applied ML.

EDUCATION

Birla Institute of Technology and Science, Pilani <i>Bachelor of Engineering in Chemical; MSc in Mathematics (Dual Degree)</i>	Oct. 2021 – May 2026 <i>Pilani, India</i>
Shiv Jyoti Sr. Secondary School <i>CBSE XII</i>	Aug. 2019 – May 2021 <i>Kota, Rajasthan, India</i>

EXPERIENCE

SDE Intern <i>Rupeeflo – NRI Wealth Management App</i>	June 2025 – Present <i>Bengaluru, India</i>
<ul style="list-style-type: none">Designed and implemented end-to-end deep-link architecture for notarization journeys with Kotak, ICICI and HSBC, enabling secure document workflows for NRI customers.Contributed to a new stocks buy/sell product for NRI investments by implementing backend flows, input validation and error handling around trading journeys.Integrated third-party services such as VideoSDK, Branch.io and PandaDoc into the core app to support video KYC, deep links and e-signature workflows.	

SDE Intern <i>Bachatt</i>	February 2025 – June 2025 <i>New Delhi, India</i>
<ul style="list-style-type: none">Developed and maintained RESTful API flows for mandates and transactions, improving reliability of payment and collection flows.Built three backend services end-to-end (User Profile, Auth and Mandate), including routing, request validation, logging and basic access control.Created the product website and collaborated with stakeholders to ensure a responsive and production-ready user interface.	

Research Intern <i>Dubverse</i>	January 2023 – November 2023 <i>Remote / Gurugram, India</i>
<ul style="list-style-type: none">Worked on retrieval-based voice cloning models for multilingual video dubbing and personalized voice generation.Implemented components for speaker recommendation in multi-speaker video dubbing, cross-lingual voice cloning and pipeline experimentation.Scaled and optimized models to 4 new languages by training on 200+ hours of speech data on Google Cloud Platform (GCP).Contributed to engineering and validation around OpenAI Whisper-based pipelines for robust speech-to-text and alignment.	

Software Developer Intern <i>Indian Red Cross Society</i>	June 2023 – July 2023 <i>Bhopal, India</i>
<ul style="list-style-type: none">Developed a registration portal using Python and Django to streamline volunteer and participant onboarding.Created the organization website using JavaScript and MongoDB to present information and initiatives.Built an internal API for organizational use, enabling structured access to internal records and forms.	

PROJECTS

- Viral Reel Generator in 40 Seconds** | *Django, ElevenLabs, OpenAI APIs* July 2024 – Present
- Built a pipeline that converts any article or topic into short, engaging infotainment reels in under a minute.
 - Used ElevenLabs and OpenAI models to generate dialogue-style scripts between popular characters and create high-quality voiceovers.
 - Implemented an end-to-end workflow in Django including text ingestion, script generation and audio rendering.
- Forest Fire Detector** | *Python, TensorFlow, Keras, PostgreSQL* June 2024 – Present
- Developed an early forest fire detection system using satellite imagery to identify high-risk regions.
 - Employed Conv2D layers for spatial feature extraction and RNNs for temporal pattern recognition in satellite sequences.
 - Used PostgreSQL for efficient storage and retrieval of processed imagery and prediction outputs.

AWARDS & RECOGNITIONS

- Amazon ML Challenge 2025 – AIR Top 10 (PPI for Amazon AS Intern role)** Oct. 2025
- Finished in the Top 10 out of 85,000+ participants across all backgrounds.
- American Express Product and Decision Track – Finalist** June 2024 – June 2025
- Selected as a finalist among top engineering students and early-career talent across India.
- Best Use of Technology – Voice AI Hackathon (Together Fund)** Aug. 2025
- Created an end-to-end pipeline for viral reel creation in around 50 seconds using voice-AI tools.
- Code Ed Hackathon (UpGrad) – Finalist** Sep. 2025
- Built flashcard, quiz and video content generation tools for educational use cases.
- Energy Quest – AIR 4 (AIR 1 in Chemical Specialisation)** Aug. 2024
- Achieved All India Rank 4 across all engineering domains and National Winner in Chemical specialisation (HPCL-HMEL).
- Amazon ML Challenge 2024 – AIR 48 (PPI for Amazon AS Intern role)** Sep. 2024
- Finished at AIR 48 out of 75,000+ participants from diverse backgrounds.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL (PostgreSQL)
Backend & Frameworks: Django, Spring Boot, Hibernate
ML & Data: TensorFlow, Keras, NumPy, pandas, Matplotlib, traditional ML libraries
Databases: PostgreSQL, MongoDB
Tools & Platforms: Git, Linux, Google Cloud Platform (GCP), VS Code
Concepts: Data Structures and Algorithms, Object-Oriented Programming (OOP), RESTful APIs, Relational Databases, basic System Design