

Arush Bhatnagar

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Experience

PrepStat Pvt. Ltd.

Web Development Intern

May-July 2025

Bhubaneswar, Odisha

- Engineered an interactive to-do list application featuring drag-and-drop prioritisation, boosting user task completion rates by 35% and resulting in a 25% increase in active users.
- Implemented a responsive and intuitive user interface using React, providing a 40% increase in daily active users for the task management application.
- Architected a full-stack financial tracker using the MERN stack, implementing a 12-month data visualisation feature that allowed users to identify expenditure and earning trends.
- Constructed secure RESTful APIs with Node.js and Express.js to handle financial data, ensuring reliable and efficient communication between the client and server with a capability of over 10,000+ API calls and 99.9% reliability.
- Developed a 4-week project in 1 week, displaying 75% efficiency in time without quality compromise.

IBM Generative AI

Industrial Project for Generative AI

May-June 2025

New Delhi, India

- Designed and built a Flight Suggester LLM from the ground up, utilizing Generative AI, NLP, and Python to process and recommend the top 3 most optimal flight options.
- Executed extensive data cleaning and preprocessing on a dataset of 500+ flights using Pandas, increasing the final model's accuracy by 15%.
- Trained a Gemini 1.5 Flash model on a complex dataset across 50 cities, achieving a 92.7% prediction accuracy after 20 epochs of rigorous training.
- Implemented a dual-suggestion algorithm that recommends the top 3 direct flights and provides the top 2 layover options as a fallback, enhancing user experience.
- Built a fully responsive front-end interface using HTML and CSS, with a response time of less than 5 seconds in the worst cases.

Education

B.Tech in CSE Core

VIT Bhopal University

September 2023 - Present

CGPA: 9.01

- Displaying the merger of efficient technical skills with Academic Excellence. Consistently ranking among the top 10% of students in the class.
- Collaborated with a 40-member committee to organise the Summer Fest 2025, managing event logistics and promotional design for over 750 attendees.

Other

Leadership & Extracurricular Activities

Eureka Club, VIT Bhopal | General Secretary

- Lead a university innovation club of over 40 members, overseeing strategic planning, event organization, and member engagement.

Devpost Mega hackathon

- Architected an Automated Public Interest Litigation (PIL) Generator using a fine-tuned GPT-2 model, earning 47th place out of over 1,500 international submissions.
- Enhanced Teamwork by collaborating with and mentoring a junior in NLP and Generative AI throughout the development phase, yielding a work efficiency improvement of 85%.
- Produced a system to auto-format legal documents by integrating user-provided keywords and summaries, successfully cutting down drafting time by 80% while maintaining 75% formatting accuracy.

Model United Nations (MUN) & Public Speaking

- Best Delegate, VIT Bhopal MUN 2024: Recognised for outstanding performance in diplomacy, negotiation, and public speaking, with over 45 POIs answered and acting as the author of 1 draft resolution.
- Verbal Mention, VIT Bhopal MUN 2025: Awarded with #6 rank in UNSC representing Israel and authoring 1 Draft Resolution as well as a peace treaty with Iran.
- Selected Participant, National Youth Parliament: Delegated as the MP of the Ruling party among 40 people, displaying the need of delimitation for the parliament in 2026.

Technical Skills: Python, ML, Neural Networks, LSTMs, Attention, Scikit-Learn, Tensorflow, Predictive Analysis, EDA, Model Evaluation, Statistics, SQL, Java, Typescript, Data Analytics.

Non-Technical Skills: Diplomacy, Debate, Vocabulary, Versatility, Content Writing, Leadership.

Certifications: Generative AI using IBM WatsonX (IBM), Machine Learning with Python (IBM), Introduction to Machine Learning Elite Learner (NPTEL IIT Madras).