Arnav Gupta

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EDUCATION

Indian Institute of Information Technology, Sonepat *November 2022 – July 2026*

B.Tech – Computer Science

Delhi Public School Ghaziabad, Meerut Road *August 2019 – July 2021*

EXPERIENCE

Software Engineering Intern – TechMahindra *1 June 2025 – 1 August 2025*

- Created a machine learning pipeline integrated with a flask app that implements custom rules for a recommendation engine to give out vehicle specific recommendations for vehicles to optimize battery performance in high elevation areas.
- Enhanced model robustness and conducted rigorous cloud endpoint testing, helping model integration with cloud endpoint, improving the display's responsiveness by 20%
- Architected a user-friendly Android Automotive Dashboard, displaying vehicle-specific battery optimization suggestions generated by the ML pipeline in real-time, ensuring sub-second latency for critical driving decisions.

SKILLS

- **Languages and Paradigms:** Python, Java, C, C++, Ruby, Kotlin, JavaScript, TypeScript, SQL, HTML, CSS
- **Web and Mobile Development:** React, Angular, Next.js, Node.js, Swift, Express.js, Three.js, Tailwind CSS, REST API, GraphQL, WebSockets, MERN stack, Android, Jetpack Compose, Gradle
- **AI/ML:** Machine Learning, Deep Learning, PyTorch, Scikit-Learn, TensorFlow, Neural Networks, Model Fine-Tuning**,** Feature Engineering, Prompt Engineering, Artificial Intelligence, Computer Vision, LLMops, Zapier, Workflow Automation
- **Data Engineering and Analytics:** Pandas, NumPy, SQL, MongoDB, Data Analytics, Power BI, Requests, BeautifulSoup**,** Hyperledger
- **Others:** Git, Agile, SDLC, OOPs, Selenium, Figma, Socket.io

PROJECTS

EV Battery Prediction and Convoy Recommendation API | ***Python, Flask, Scikit-learn, XGBoost, OpenRouteService***

- Develop Engineered an API leveraging elevation and topography data to forecast EV battery consumption, bolstering route optimization, and leading to a 25% reduction in convoy delays.
- Implemented machine learning models with feature engineering to enhance prediction accuracy.
- Achieved a 30% improvement in battery usage prediction and improved load reduction prediction by 32.1%

AI Lead Generation Agent | ***Python, Firecrawl, Phidata, Composio, Google Sheets, GPT-4***

- Automated lead generation by scraping and qualifying potential leads from Quora using AI.
- In Designed a lead management workflow automation between agent interface and google sheets; system now used daily by 10+ sales reps, improving lead tracking accuracy by 40%
- Boosted lead qualification speed by 45%, enabling 3x more leads captured per day compared to manual processes.

DeFi Wallet Scoring from Scratch | ***Python, XGBoost, GraphQL, Blockchain, Aave V2, Data Analytics***

- Built accredit scoring system for DeFi wallets based on on-chain interaction data with Aave v2 protocol.
- Designed multiple smart features to score wallets accordingly while being mindful of bots and whales on-chain.
- Delivered real-time credit scores with 94% prediction accuracy, supporting risk-based DeFi lending Decisions.

CERTIFICATIONS

Full-Stack MERN Development – Pregrad