

# ABHINAV GUPTA

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## EDUCATION

**Vellore Institute of Technology, Vellore (CGPA: 8.97/10)**

**July 2019 – April 2023**

Bachelors of Technology – Computer Science Engineering

*Relevant Coursework:* AI, Java, DBMS, DSA, OOP, OS, Compiler Design, Computer Architecture, Statistics, Calculus

*GRE:* 323/340 (168Q, 155V, 4AWA); *TOEFL:* 107/120 (29R, 29L, 23S, 26W)

## WORK EXPERIENCE

**Learn with Leaders, AI Developer**

**September 2021 – March 2022**

- Developed Valfee, an AI powered feedback-first learning platform that helps users enhance their speech confidence
- Implemented a decluttering algorithm that refines speech to text transfigured data and analyses it for improvements

**Young Tycoons Business Challenge, Co-Founder and Technical Lead**

**October 2020 – August 2021**

- Led a team of 30 interns to develop a full-stack robust application portal using a combination of Java and JavaScript
- Hosted the software with AWS cloud to ensure accessibility. Event Highlights: 20,000+ Participants | 80+ Countries

**Rockwell Pvt. Ltd., Summer Intern**

**May 2020 – July 2020**

- Redesigned the tender management system that manages all new orders while shadowing under the firm's Director
- Created modular components for client-facing web app and in-app user feedback widget feeding data to PHP servers

## PROJECT – RESEARCH WORK

**Sentiment Analysis Using Voting Classification and Neural Networks**

**August 2022 – October 2022**

*Accepted At:* Springer Conference - 2nd ICISCC 2022 (1<sup>st</sup> Author)

- Conducted sentiment analysis with ML classification algorithms- Naïve Bayes, Random Forest, Neural Network etc.
- Reported an accuracy of 77.78% and precision of 78.89% using voting classifier over a dataset of 140,000 entries

**Total Revenue Prediction of Grook Using Machine Learning Models**

**July 2022 – September 2022**

*Presented At:* IEEE Conference - 13th ICCCNT 2022 (Co-Author)

- Predicted total revenue generated using multiple ensemble ML regression algorithms and varied polynomial features
- Achieved an R2 score of 0.979 and RMSE value of 82.022 with Lasso regression over a dataset of 14,000+ records

**Image Encryption Using (k, n) Secret Sharing**

**January 2022 – May 2022**

- Devised a visual cryptographic application based on Shamir's secret sharing algorithm and Lagrange Interpolation
- Modified the (k, n) threshold and the size of each share by making it  $2(\log m) \times 2/m$  that of the shared  $m \times m$  image

**Social Distancing Detector**

**August 2021 – December 2021**

- Designed an AI-based solution to monitor social distancing using CCTV footage with deep learning neural network
- Optimized YOLOv3 algorithm and trained the model with COCO dataset, OpenCV, and TensorFlow library system

**Grook: Your Sports Manager**

**July 2020 – November 2020**

- Modeled an app-based solution to book nearby sports facilities using Java and Android Studios backed by Firebase
- Developed layered module structure with responsive user interface, interactive UI/UX design, and secure database

## EXTRA – CURRICULAR ACTIVITIES

**Rotary International** – Coordinated multiple humanitarian projects such as tree plantation, and food and clothes donation

**Aiesec in India** – Led a team of 4 to create digital graphic content and business development strategies at the VIT chapter

**COVID-19 Initiative** – Distributed PPE: Raised \$4000 for 3D printing & donation of 1100+ shields to frontline workers

**Mathathon** – Qualified till the final round by developing a weather forecasting prototype using applied mathematics

**Youth Red Cross** – Raised awareness and organized multiple blood donation camps with a total of 1500+ voluntary donors

**Odyssey of the Mind** – Engineered autonomous getaway vehicles with booby traps; Secured 1st Runners Up at Belarus

## LANGUAGES AND SKILLS

**Languages** – Native in Hindi and Proficient in English

**Skills** – Python, Machine Learning, Artificial Intelligence, Statistical Analysis, Database Modeling, Java, Android Dev, C++