

Geetika Vadali

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EDUCATION

- **Indira Gandhi Delhi Technical University for Women** Delhi, India
Pursuing BTech in Computer Science and Engineering with Artificial Intelligence Aug. 2022 – May 2025
Current SGPA - **9.36**

PROJECTS

- **Reaching Nash Equilibrium in Rock-Paper-Scissors:** June 2023 - Link
 - Visualised the convergence of 5 algorithms onto **Nash Equilibrium** for the game of Rock-Paper-Scissors.
 - Coded and implemented **Counterfactual Regret Minimization, Deep-Q Network Reinforcement Learning and Monte-Carlo Simulation** for comparing their rates of convergence to the game-theoretic Nash Equilibrium.
- **Interpretable Breast Cancer Classification:** January 2023 - Link
 - Used **Random Forest Classifier** for the binary classification of categorical and quantitative breast cancer data. Gained **98.7% test accuracy**.
 - Utilized **SHAP library, LIME, What-If** to interpret the model results finding the most affecting parameters.
- **Formality Style Transfer:** September 2022
 - Implemented **LSTM** on the **NLP-based Sequence2Sequence** problem of formality transfer i.e. conversion of an English informal sentence to an English formal sentence without semantic change.
 - Worked on an extensive literature survey on **Neural Machine Translation** and transformers architecture.
- **Pollution level forecasting:** July 2022 — Link
 - Predicted PM2.5 levels in Industrial areas given a Beijing, China dataset. Utilized RNN-based LSTM model to train on **time-series data**. Visualised the test results.

ACCOMPLISHMENTS

- **Winner in Wipro Climate Challenge'22** November 2022-February 2023
Wipro and Climate Collective *Received grant money and incubation support*
 - **Proposed Solution:** : Our solution assures a food storage facility of 'organization in their stock' and 'optimization in their flow' using **AI and stock data analytics**. Won the **Top 5 across 1,175 teams** who applied and were invited to the Wipro Earthian Awards, Bangalore.
- **Top 5 in Stoascape Ideathon** October 2022
Stoa and Innerve'22 *Received goodies and certificate*
 - **Proposed Solution:** Uber case study tackling driver cancellations. Our solution included predicting rogue behavior from the patterns of pickup location, duration of the trip, the delay between customer booking and cancellation, etc. using AI. Shortlisted as the **top 5 from 665 registrations** around India.

SKILLS

Languages - Java, Python, SQL

Frameworks and Tools - Tensorflow, PyTorch, Keras, Microsoft Office, Pandas, Numpy, Tableau, Matplotlib

Leadership Experience - Event Management Core in ACM-IGDTUW Student Chapter, Team Leader in Wipro Climate Challenge, Member of Debating Club, Founding Member of The Arc - Data Science Club of IGDTUW

Top Grade in following courses - Introduction to Data Science, Database Management Systems, Operating Systems, Data Structures, Optimization Techniques

Certifications - Neural Networks and Deep Learning, Explainable AI bootcamp, Introduction to Mathematical Thinking, pursuing Reinforcement Learning