

# Devansh Rastogi

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## EDUCATION

### Indian Institute of Technology Madras

*Bachelor of Science in Data Science and Applications*

Chennai, Tamil Nadu

Jan. 2024 – Dec. 2027

### Guru Gobind Singh Indraprastha University

*Bachelor of Technology in Computer Science, Minor in AI & ML*

Dwarka, Delhi

Sep. 2021 – July 2025

## EXPERIENCE

### Liaison Officer

July 2023

*G20 Conference on Crime and Security in the age of NFTs, AI & Metaverse*

Gurugram, Haryana

- Facilitated collaboration among G20 nations' representatives
- Ensured seamless communication on emerging NFT, AI, and Metaverse challenges
- Fostered collective strategies for global crime and security

## PROJECTS

### Detector Simulation and Optimization | *Geant4, Python, R*

- Developed a simulation for a particle detector system using Geant4 toolkit
- Generated synthetic data to represent various particle collisions
- Analyzed the simulated data to identify patterns, anomalies, or inefficiencies in the detector's response
- Implemented optimization algorithms to improve the detector's performance

### Scientific Paper Recommendation System for Particle Physics | *Python, NLP*

- Developed a recommendation system that suggests relevant scientific papers based on user input
- Utilized web scraping to build a comprehensive corpus
- Applied Latent Dirichlet Allocation technique to identify key topics within the scientific papers
- Implemented algorithms that predict which papers a user might find relevant based on their interests

### Classify Song Genres from Audio Data | *Python, NumPy*

- Applied machine learning algorithms to classify songs into genres
- Prepared the data set to apply principal component analysis (PCA)
- Trained a decision tree to classify the genre
- Used cross-validation to evaluate the models

### Word Frequency in Classic Novels | *Python, BeautifulSoup*

- Used 'requests' and 'BeautifulSoup' to scrape a novel from the Project Gutenberg website
- Used 'NLP' to find the most frequent words in Moby Dick
- Learnt Web Scraping through this project

### Memorize! | *Swift, SwiftUI*

- A tile-based memory challenge made using Swift and SwiftUI in Xcode
- User-selectable themes for a personalized gaming adventure
- Scores determined using accuracy and completion time parameters

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, Java, C/C++, Rust, Swift

**Frameworks:** Substrate, SwiftUI, WordPress

**Developer Tools:** Git, Docker, VS Code, XCode, IntelliJ, Eclipse

## EXTRA-CURRICULAR ACTIVITIES

**Basketball** Actively involved in college sports events - playing and organising

**Playing DJ** Enjoy myself playing songs in parties

**Photography** Leveraged technical skills and artistic eye to capture compelling moments, employing advanced equipment and post-processing techniques to produce high-quality, visually stunning images

**YouTube** Technical YouTube channel to describe various issues faced by a coder along with optimal solutions

**Blog** Occasionally blog about life fundamentals and short stories