



# Pragyan Srivastava

Roll No. 220107063

B.Tech - Chemical Engineering

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.93 (Current)	2022-Present
Senior Secondary	CBSE Board	94.6%	2022
Secondary	CBSE Board	98.0%	2020

## PROJECTS

- **Smart Vision Technology** Aug. 2024- Oct. 2024  
*Flipkart Grid: Robotics Challenge 2024* Github
  - Leveraged advanced machine learning algorithms and computer vision techniques for **automated quality control** and **inventory management** on e-commerce platforms such as **Flipkart**, optimizing product listings, and improving operational efficiency.
  - Implemented advanced **image recognition**, **text extraction**, **product counting**, and **freshness prediction** techniques to enhance operational efficiency, improve inventory management, and reduce waste, particularly in the handling of perishable goods.
  - **Tools and Frameworks:** InceptionV3, PaddleOCR, spaCy, Regex, CountGD, MobileNetV2, TensorFlow/Keras, Streamlit
- **Predictive Modeling for T20 Match Outcomes** May'24 - Jun'24  
*Decision Science Track - The American Express Campus Challenge 2024* Github
  - Analyzed and modeled various cricket match datasets, including **bowler scorecards**, **batsman scorecards**, and **match-level scorecards**, to predict the outcome of T20 matches, applying advanced **predictive modeling** and **data analysis** techniques.
  - Utilized **train and test data** to develop and optimize machine learning models with **boosting algorithms** such as **XGBoost**, **CatBoost**, and **GBM**, achieving high prediction accuracy and showcasing advanced **analytical skills** in sports data analysis.
  - **Tools and Frameworks:** Python, Scikit-learn, XGBoost, CatBoost, GBM, Pandas, NumPy, Jupyter Notebook
- **Fraud Detection Strategy** Aug'24 - Sept'24  
*Strategy Track - The American Express Campus Challenge 2024* Github
  - Performed in-depth analysis on a comprehensive dataset of approximately **63,000 customer transactions** and **banking details**, uncovering significant patterns and anomalies that indicate potential **fraudulent behavior** and providing actionable insights.
  - Developed and implemented a robust **fraud detection strategy** to identify potential fraudsters, utilizing a combination of **statistical methods** and **machine learning techniques** such as **logistic regression** and **decision trees** to get a score of **(163/200)**.
  - **Tools and Frameworks:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Jupyter Notebook
- **Text Extraction and Entity Recognition** Sept'2024  
*Amazon ML Challenge* Github
  - Utilized **Paddle OCR** to extract text from a large dataset of approximately **2.5 lakh images**, performing text recognition and entity extraction to identify specific entity names and units, followed by extensive data processing and cleaning.
  - Fine-tuned and optimized a **ChatGPT2** model on the provided dataset to effectively extract entity values, ensuring accurate predictions and robust performance while demonstrating the seamless integration of **OCR** and **large language models (LLM)**.
  - **Tools and Frameworks:** Paddle OCR, ChatGPT2, Python, TensorFlow, NumPy, Pandas, Hugging Face Transformers

## ACHIEVEMENTS

- **Adobe GenSolve - Innovate to Impact:** Qualified Round 1: Online MCQ and Coding Contest to reach the **Project Submission**.
- **Meesho DICE Challenge - Tech Track:** Qualified **Data Science Quiz** to reach the Online Coding Round (Data Science Domain).
- **Flipkart GRiD 6.0 - Software Development Track:** Qualified Level 1.1: **E-Commerce & Tech Quiz** to reach Level 1.2: **Qualifier**.
- **Codeforces Coding Contest:** Secured **Rank 602** in Codeforces Coding Contest 1958 among 9000+ registered participants.
- **Kimo.ai:** Secured **Rank 61** among the students of IIT Guwahati in KIMO's-Edge' 23 Tech Competition.
- **Inter-IIT Cultural Meet 6.0:** Advanced to the Semi-Finals of JAM (Just-A-Minute) conducted at IIT Kharagpur.
- **Joint Entrance Examination Main 2022:** Placed in the top **1.63 percentile** among 0.90 million registered candidates.
- **Joint Entrance Examination Advanced 2022:** Secured **AIR 8988** among 0.15 million candidates.

## TECHNICAL SKILLS

- **Programming Languages:** Python, C/C++, MATLAB
- **Data Analysis Tools:** Pandas, NumPy, Matplotlib, Regex, SQL
- **Miscellaneous:** Windows, Git, Github, Jupyter, L<sup>A</sup>T<sub>E</sub>X\*
- **Machine Learning Tools:** Python, Scikit-learn, TensorFlow, Keras, Ensemble methods, Tree algorithms, Other models
- **Development:** Django, Streamlit, Gradio

\* Elementary proficiency

## POSITIONS OF RESPONSIBILITY

- **Overall Coordinator**, Debating Society, IIT Guwahati Apr'24 - Present
  - Managing internal club matters, organizing events, leading and participating in debates, and coordinating with heads.
- **Student Representative**, DUPC, Chemical Engineering, IIT Guwahati Apr'24 - Present
  - Advocating for student interests in academic policy discussions and suggesting measures to enhance the curriculum.
- **Welfare Secretary**, Hostel Management Committee, Barak, IIT Guwahati Apr'24 - Present
  - Ensuring mental and physical well-being of 500+ hostel boarders, managing a 0.6 million + budget and welfare funds.
- **Literary Secretary**, Hostel Management Committee, Barak, IIT Guwahati Apr'23 - Apr'24
  - Managed the Hostel Library, conducted literary events for boarders, and prepared teams for Inter-hostel competitions.