

# ARYAN CHOUHAN

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## Education

**Dwarkadas J. Sanghvi College of Engineering, Mumbai University**

**2018 – 2022**

*Bachelor of Engineering in Computer Engineering*

*CGPA: 9.72, GRE: 334/5*

## Relevant Coursework

- Machine Learning
- Artificial Intelligence
- Data Structures
- Analysis of Algorithms
- Applied Mathematics
- Discrete Mathematics
- Database Management
- Operating Systems

## Experience

**Indian Institute of Technology, Patna**

**July 2021 – Present**

*Research Intern*

[iitp.ac.in](https://iitp.ac.in)

- Guide: [Dr. Raju Halder](#)
  - \* Working on the application of Graph Neural Networks on Blockchain data to detect illicit transactions
  - \* Designed and implemented a novel approach towards node classification that improved accuracy by over 5%
  - \* Developed code implementations for 10+ research papers in PyTorch and Tensorflow
- Guide: [Dr. Sriparna Saha](#)
  - \* Working on the application of a novel Multi-Modal approach towards Protein Function Classification
  - \* Actively developing classification methods using Generative Adversarial Networks, Graph Neural Networks and Transfer Learning

**Tech Mahindra**

**June 2021 – August 2021**

*Data Analyst Intern*

[techmahindra.com](https://techmahindra.com)

- Worked in the experimental AI/ML team to develop machine learning models to optimize the firm's inventory management capabilities

**Apli.ai**

**May 2020 – September 2020**

*Software Engineering Intern*

[apli.ai](https://apli.ai)

- Built REST APIs for the application's backend using DRF and developed database schemas on Firebase
- Handled scripting tasks for automation and development to test client-side functions and triggers using Selenium
- Integrated frontend and backend code to deliver core functionality for different modules of the application using HTML, CSS, JavaScript, AJAX and Django

## Publications

**Sentiment Analysis of Twitch.tv Livestream Messages using Machine Learning Methods**

*4th International Conference on Electrical, Computer and Communication Technologies (IEEE)*

## Projects

**Rubber Price Forecasting** | *Data Analysis, Machine Learning*

**April 2021 – May 2021**

- Under the supervision of [Dr. Kriti Srivastava](#), performed a case study on the Indian rubber industry for a Big 4 consultancy firm
- Investigated the various factors that affect its trade and production-consumption cycles
- Performed extensive feature engineering and constructed 10+ linear and non-linear models to predict the market price of two popular types of rubber

## Technical Skills

**Languages and Databases:** Python, JavaScript, Java, C, C++, HTML/CSS, SQL, MongoDB, Firebase

**Technologies/Frameworks:** PyTorch, TensorFlow, Django, Node.js, Flask, Linux, Docker, AWS

## Leadership/Extracurricular

- Teaching Assistant for [Unicode's Machine Learning Summer Course](#), funded by Google AI Research
- Part of a reading group studying Cosma Shalizi's [Advanced Data Analysis from an Elementary Point of View](#) and [Bayesian Statistics](#)
- Presented paper reviews as a part of Unicode Research on [Generative Adversarial Networks](#) and part of a research effort aimed at studying the causal effects that non-expert mentors have on the careers of mentees at an educational institution
- Core Team Lead at [DJ Unicode](#)
- Vice-Chairperson of the University Alumni Co-ordination Committee