

# Dhruvil Dave

Kaggle Master, Machine Learning Engineer



kaggle



## EDUCATION

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### Ahmedabad University

Ahmedabad, Gujarat, India

*B.Tech. (Information and Communication Technology)*

*Jul '18 - Jun '22*

- 3.11 CGPA in the final two years of coursework
- Aced various Mathematics and Computer Science courses like Machine Learning, Advanced Statistics, Operating Systems, Big Data Analytics, Probabilistic Graphical Models, Linear Algebra, Data Structures and Algorithms, and Optimization Theory
- **Additional coursework:**
  - Completed Data Engineering, Big Data, and Machine Learning on Google Cloud Platform Specialization (Coursera)
  - Introduction to Database Engineering (Udemy)

## WORK EXPERIENCE

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### Ahmedabad University

Ahmedabad, Gujarat, India

*Teaching Assistant*

*Aug '21 -*

- Working as a teaching assistant for Operating Systems course for handling coursework and teaching a class of 70 students

### PedalsUp

Ahmedabad, Gujarat, India

*Backend Golang Intern*

*Oct '20 - Nov '20*

- Facilitated in porting the Continuous Integration pipeline using Golang to speed up builds by 6 times from 1 hour to 11 minutes
- Coordinated in moving the production database of 10 million records to PostgreSQL from SQLite with zero downtime
- Developed docker builds of the software to help moving to Kubernetes

### Modern Power Services

Ahmedabad, Gujarat, India

*Backend Python Intern*

*May '19 - Jun '19*

- Assisted in porting 4,000 lines of C codebase to Python
- Learnt basics of Numpy to better vectorize the code to replace bottleneck loops

## PROJECTS

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### Spotify Charts Dataset

- A complete dataset of all "Top 200" and "Viral 50" charts published by Spotify of daily statistics of the top tracks on the platform. The data was scraped, processed, and curated completely from scratch. An entire pipeline was written to ensure smooth and fast ingestion and parsing of 30 GB data with approximately 25 million rows and updating it daily and hosted over Kaggle and BigQuery and creating PostgreSQL dumps using Apache Spark, TypeScript and Golang

### Warehouse Storage Optimization

- Developed a warehouse optimization system as a part of Machine Learning course to understand the workings of clustering and classification algorithms using Scikit-Learn, Pandas, and Optuna

### Event Reconnaissance

- Created an event management software as a part of Software Engineering course to understand industry standard process models using React.js, Django, PostgreSQL, and GraphQL from scratch that would have features like setting up a meetup group, and ease up the creation of online footprint

### Basic Linear Algebra System

- Created an Basic Linear Algebra System using C language to understand various numerical algorithms and core linear algebra

## LEADERSHIP EXPERIENCE

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### IEEE Ahmedabad University Student Branch

Ahmedabad, Gujarat, India

- Served as a Treasurer of Women In Engineering branch of IEEE Ahmedabad University

### Red-Black Decision Tree

Ahmedabad, Gujarat, India

- Creator of a Machine Learning and Data Science enthusiasts where we host weekly talks of anything and everything related to the field

## SKILLS & INTEREST

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### Skills

- **Data Science and Machine Learning:** Python, R, PostgreSQL, Tidymverse, Numpy, PyTorch, Pandas, Apache Spark, Apache Cassandra, Puppeteer, Google BigQuery, Plotly, Seaborn, Docker, Julia, FastAPI
- **Web Development:** Golang, TypeScript, C, Linux, Node.js, Express.js, GraphQL, Bash, HTML, CSS, React.js

### Interests

- I am fluent in English and Gujarati and can comfortably communicate in Sanskrit and Hindi. I spend a lot of time exploring new technologies and programming languages/frameworks/libraries. I am pursuing a degree in Indian Classical Music in Vocals and Harmonium and like exploring philosophies and various aspects of history and spend time playing football