

# AYAN HUSSAIN

## Data Analyst

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### EDUCATION

#### Indian Institute of Technology (IIT) Madras

BS in Data Science and Applications

- GPA: 7.9

#### Courses/Skills

- **Programming:** Experienced in Python to manipulate, analyze, and clean data for further analysis using Numpy, Pandas, Scikit-Learn, Scipy and Matplotlib.
- **Machine learning:** Experimenting with various algorithms and techniques to build predictive models and extract insights from data.
- **Database Management Systems:** Proficient in designing, querying, and managing relational databases using SQL; familiar with normalization, indexing, and transaction management. Hands-on experience with MySQL and PostgreSQL for real-world data handling tasks.
- **Data Structures and Algorithms:** Strong understanding of core data structures and algorithms practiced implementing optimized solutions in Python and Java for computational problems.
- **Modern Application Development:** Gained experience in building web applications using Flask and frontend tools like HTML, CSS, and JavaScript. Applied concepts of REST APIs, version control with Git, and modular design for scalable app development.
- **Business Analytics:** Developed the ability to derive actionable insights from data using statistical methods and visualization tools like Excel and Python. Worked on case studies involving business KPIs, forecasting, and decision-making support.

### CERTIFICATES

#### Hands-on Dynamic Programming – Build Optimal Solutions with Practical Examples

#### Implementing Machine Learning Techniques using Numpy

### PROJECTS

**Quiz Master**(Skill Used – Flask, SQL, HTML, Bootstrap)

**Vehicle parking system**(Skill Used – Flask, Vue.js, SQL, Bootstrap, Redis and Celery)

**Flight Price Prediction Model** – An end-to-end machine learning model to predict flight prices

**Image Classification with a Convolutional Neural Network (CNN)** – Designed, built, and trained a Convolutional Neural Network (CNN) from scratch using TensorFlow and Keras to classify a large dataset of images.

**Customer Churn Prediction** – Developed a classification model to predict customer churn providing a tool to identify at-risk customers.