

Arnav Kumar

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EDUCATION

University of Texas at Dallas

Richardson, Texas

B.S. in Computer Science

Expected Graduation: May 2028

- **Concentrations:** Data Analysis, Machine Learning, Front End Web Development
- **Related Coursework:** Introduction to C++, Computer Science I, Computer Science II

EXPERIENCE

CometMate

Richardson, Texas

Database Engineer

January 2025 – March 2025

- Collaborated with a team of developers to create and maintain a database for University wide software
- Researched and maintained the Postgresql server for the software.

Project Management Club

Richardson, Texas

Front-End Web Developer

February 2025 – Current

- Created scripts embedded within the webpage using DOMS in Javascript to connect to HTML files
- Utilized CSS to design better visual experience for users on the landing page, events page and contact page

PROJECTS

Comet Flowchart

Remote

Front End Designer

July 2024 – August 2024

- Streamlined course flowcharts for incoming freshmen in engineering at UT Dallas.
- Collaborated with peers in designing and coding the website using HTML/CSS div objects and classes
- Web Scraping Data from the official UTD webpage that indicates credit per hour equivalent for AP classes.

Image Classification

Remote

Backend App Development

March 2025 – May 2025

- Utilized a pre-trained model to classify images of animals such as dogs and cats
- Added labels and tagged the images using the model such as breed and origins of the animal
- Created section to handle and report misclassified information

Solubility Prediction Model

Remote

Personal Project | Machine Learning

June 2025

- Developed a Machine learning model to predict the solubility of chemical compounds using molecular descriptors
- Trained and evaluated two Regression models using Linear Regression and Random Forest from Sklearn library
- Utilized R² and MSE to analyze predicted data from both models to visualize and analyze prediction performance using scatterplot graphs and trendlines from pandas and numpy libraries

CERTIFICATIONS

Current Certifications are from the Google Data Analytics provided **through Google** at Coursera

[Foundations of Data](#) | [Project Questions](#) | [Preparing Data](#) | [Data Cleaning](#) | [Data Analysis](#) | [Sharing Data](#)

CLUBS

American Institute of Aeronautics and Astronautic at UTD

Richardson, Texas

Comet L1 Rocketry

September 2024 – November 2024

- Responsible for designing and executing simulations to optimize the performance and safety of the L1 rocket development.

SKILLS

Programming: JavaScript, Python, HTML/CSS, BigQuerySQL, C/C++, C#

Tools: Google BigQuery, Git/Github.