Ujjwal Tyagi

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Portfolio: ujjwaltyagi15.github.io/Profile_website GitHub: https://github.com/UjjwalTyagi15

Education

- **Jamia Millia Islamia University** — New Delhi ,India
  Bachelor of Technology-Electronics and communication engineering
  2020-2024
  CGPA-9.2
- Courses
  - Complete Machine Learning & Data Science Bootcamp 2022 (CERTIFIED) — UDEMY
  - The Complete Web Developer in 2022: Zero to Mastery (CERTIFIED) — UDEMY
  - Data Structures and algorithms, Operating systems, Database management systems, object-oriented programming (C++)
- **Delhi Public School** — Uttar Pradesh ,India
  AISSCE – 95.4%
  2018-2019

Skills

- Languages: python, JavaScript, C++ ,C
- Libraries: Scikit learn, Pandas, NumPy, Matplotlib
- Front-End: React.Js, HTML,CSS
- Back-End: NodeJS, ExpressJS
- Database: SQL, MongoDB
- Tools: Git, Jupyter, Google Colab, VSCode
- Soft skills: Leadership, Public Speaking, Event Management

Experience

- **Web Development and Design Intern** — May 2022-Aug2022
  Unicompiler E-learning platform
  Description: Working as a Front-End developer to design and publish multiple Blogs and Posters for the e-learning firm using React framework. Making personal profile pages for users to track their progress using PostgreSQL and NodeJS.
- **JP Morgan virtual Software developer experience** — Sept2022-Present
  Description: Explored life as a software engineer at JPMorgan Chase and obtained valuable technology skills. familiarizing oneself with JPMorgan Chase frameworks and applying technical skills to a hypothetical request from the firm's trading floor to analyze and visualize data in a new way.

Projects

- **Face-detection Web application**
  A full stack web application including user registration and profile data management and using a pre-trained machine learning model from clarify API to detect Face in a user-provided image(URL). Front-end using ReactJs framework. Back-end using NodeJS, ExpressJS . Database management by PostgreSQL. Clarify model used – Mobile_net_V2. Deployment using Heroku dynamic website deployment platform
- **Dog Breed Identification System**
  Using a Machine learning Model to identify a dog's breed based on a dog's image (png, jpg). Using TensorFlow 2.x., pandas and NumPy to Pre-process our data and incorporate the Deep Learning Model from TensorFlow Hub to make predictions on our analyzed data. Applying multiple Keras layers to our model to get the output in the desired format (breed predictions) and visualizing our output using Matplotlib. **Accuracy** of the model- 89% (R2 score) || **Dataset** - 10,000+ labelled images of 120 different dog breeds.
- **Predicting Heart disease**
  A multi-class classification problem on real-world data to predict if a patient has a certain heart disease based on their medical records using machine learning. Using Jupyter, Pandas and NumPy to analyze and process the data. Importing models from Scikit learn Library. Dataset: Cleveland database || Metrics (100%) : 87.05(F1 score) , 92.7 (recall score) , 82.158 (precision) 88 (accuracy)

Honors, Achievements and Volunteering experience

- Cleared JEE MAINS with 97.4 %ile — Apr 2020
- Member of DSA club, IEEE Computer Society JMI — Aug 2021-present
- Head Boy ,Delhi Public School Ghaziabad Vasundhara — Apr 2018-Apr 2019
- Conducted various workshops on placement preparation and Data structures — 2021 , 2022