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