ANKIT DEY

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https://github.com/Scorpion-123

FRAMEWORKS

- **Django, Django-REST Framework, Django-Channles, FAST-API, Celery, Redis, Beautiful-Soup, Payment Gateway Integration (Insta Mojo)**
- **Git, Github, AWS S3, EC2, DIgital Ocean**
- **Tensorflow, Keras, Scikit-Learn, OPEN-CV**

EDUCATION

B.Tech (CSE)(Data Science)

HERITAGE INSTITUTE OF TECHNOLOGY

Sep 2022- Oct 2026

Current CGPA : 8.5

Complete Schooling

D.A.V MODEL SCHOOL

April 2009 - April 2022

- **Class 12 (Computer Science) | Percentage - 88.8%**
- **Class 10 | Percentage - 92%**

LANGUAGES

PYTHON

C,C++

Javascript

PROFILE

A highly skilled and motivated coder proficient in backend technologies, Deep Learning and Machine Learning, Skilled in developing robust web applications, designing efficient APIs, creating robust AI Models and managing databases. Demonstrates strong problem-solving abilities, effective communication, and collaborative teamwork in agile development environments.

WORK EXPERIENCE

Projects Built

E-PMSSS (Scholarship Portal)

Sep-2024

HackHeritage Hackathon Project

- **Tech Stack Used : Django, Tensorflow, WEB 3.0 Technology (PINATA), Celery, Redis, Docker, AWS S3 Bucket**
- Implimented a Decentralized Cloud Storage in Pinata, through API calls where the user credentials are stored and are verified by the goverment.
- Proper Document Hashing Techniques were used in Order to Store and Validate the submitted Documents.
- Incorporated celery beats, allowing you to offload long-running tasks to background workers, effectively improving the responsiveness and scalability by executing tasks independently.
- **Used Redis as a Message Broker which was used in celery to assign tasks to different workers and save the cache to itself.**
- The main Backend Framework was Django which was used as a container using Docker. Moreover the Redis was also incorporated in the same manner. (Because there is no distribution for Redis (in windows.))

EEG IDD Classification (Using ChronoNET)

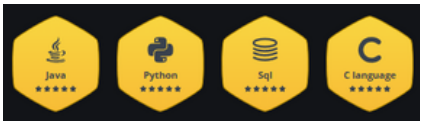
Jan-2025

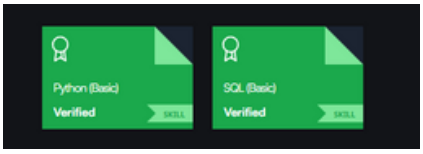
Intellectual Developmental Disability Classification

- **Tech Stack Used : Python, Tensorflow, Scikit-Learn, MNE-Python, Scipy.**
- **Dataset Used :** https://data.mendeley.com/datasets/fshy54ypyh/3
- **Model Used : ChronoNet** (A Deep Recurrent Neural Network for Abnormal EEG Identification developed by IBM) **(IC-DRNN)**
- The Complete EEG Data was in Matlab Format, the whole data was converted into 14 channel EEG data array using scipy.
- The array of 14 channels were converted into MNE objects and then was converted into epochs of defined length considering the duration of an epoch.
- The Model is trained on the dataset using GroupKFold Batch Grouping Technique.
- **Model Accuracy : 98.4 %**
- **Accuracy On Dataset : 96.5 %**

ANKIT DEY

HACKERANK BADGES





PRE-TRAINED ML MODELS

That I Have Worked On..

- ChronoNET (IC-DRNN)
- ALEX-NET
- VGG-16
- RESNET 50
- EFFICIENT-NET
- INCEPTION V3
- YOLO V3

CERTIFICATIONS

Tata Group - Data Visualisation.
Forage

Automate The Boring Stuff Using Python
Udemy

Microsoft AI Expert
Microsoft

Python Expert
LinkedIN

Django Web Development Expert
BitDegree

EEG Schizophernia Classification (Using ChronoNET)

Dec - 2024

Schizophernia Detection Using Deep Learning

- **Tech Stack Used : Python, Tensorflow, Scikit-Learn, MNE-Python, Scipy.**
- **Dataset Used :** https://www.mdpi.com/2076-3417/9/14/2870
- **Model Used : A proposed CNN model for subject based testing.**
- The data was present in European Data Format (EDF) file, which is a standard format for storing and exchanging medical time series data.
- Using MNE the EDF data was converted into 14-channles Epoch Data of defined length considering the duration of an epoch.
- **Applied Some Advanced Concepts of FFT (Fast Fourier Transform) and PSD (Power Spectral Density) on the EEG signals in order to perform noise reduction.**
- **Also Applied Signal Filtering to get a perfect Noise FREE EEG Data.**
- The Model is trained on the dataset using GroupKFold Batch Grouping Technique.
- **Model Accuracy : 87.64 %**
- **Accuracy On Dataset : 67.94 %**

DoctorFinder Web Application

Sep - 2023

HackHeritage Hackathon Project

- **Tech Stack Used : Python, Django, SMTP-Lib, SQLite 3, Redis, Celery, Docker**
- Supports multiple file types (CSV, Word, Binary, sqlite3.. etc) for importing hospital and doctor information to store detailed profiles for doctors.
- Allows users to book appointments with doctors based on availability and specialization,and can automatically assign appointments to doctors.
- Generates downloadable appointment slips for patients, on successfull appointment.
- Sends Confirmation E-Mail to both the Parient and the Docter regrading the Appointment of the Desired Time Slot.

Pizza Mania Web Application

Dec- 2023

Online Food Ordering Web Application

- **Tech Stack Used : Python, Django, SQLite 3, Redis, Celery, Docker**
- Secure user registration and display a variety of pizzas and other menu items with descriptions, images, and prices.
- Allows users to add, update, and remove items from their shopping cart.
- The Customer can also apply different coupons to avail discounts on the Platform.
- Handles the complete order lifecycle from cart to order confirmation along with Payment Gateway Integration (Insta Mojo).