Aryan Mankame

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EXPERIENCE

FARCRAWS, Bhopal— *Backend Developer*

August 2022 - November 2022

- Developed signup and login page with SMS and email authentication functionality.
- Created server component to handle responses from GSM module, ensuring smooth communication.
- Implemented backend using Django framework for efficient data processing and management.
- Designed and implemented optimized PostgreSQL database schema.
- Demonstrated proficiency in full-stack development, problem-solving, and collaboration.

PROJECTS

EHM-Cervix : A model for classification of cervical cancer images - Python | Keras | Sklearn

- Developed "EHM-Cervix" project, combining 3 hybrid models with distinct 3 pre-trained CNNs in each hybrid model for cervical cancer classification.
- Achieved a remarkable 95.10% accuracy on SIPaKMed dataset, surpassing existing CNN-based hybrid models.
- Showcased expertise in deep learning, ensembling models, and feature extraction, contributing to healthcare innovation.

Cervical Cancer Risk Detection - Python | Sklearn | Pandas | Numpy

- Contributed to early cervical cancer detection, emphasizing the significance of machine learning in healthcare.
- Determined biopsy necessity based on patient features for early cervical cancer diagnosis.
- Utilized "Cervical Cancer Risk Classification" dataset from UCI Repository, featuring risk factors leading to biopsy examination.
- Models Used:
  - GaussianNB: 89.53%
  - KNN: 93.02%
  - SVM: 93.60%
  - XGBoost: 94.19%
  - Random Forest: 94.77%
  - AdaBoost: 94.77%
  - Logistic Regression: 95.35%
  - Gradient Boost Classifier: 95.35%
  - Multilayer Perceptron: 95.93%.
- Devised the "TrueDemocracyModel" by categorizing models into low, medium,

SKILLS

- ★ FrontEnd
- ★ BackEnd
- ★ React.js
- ★ Next.js
- ★ Express.js
- ★ MongoDB
- ★ Firebase
- ★ Django
- ★ MySQL
- ★ PostgreSQL
- ★ Typescript
- ★ OOPS
- ★ DBMS
- ★ OS
- ★ C/C++
- ★ Python
- ★ JavaScript
- ★ HTML5
- ★ CSS3
- ★ Machine Learning
- ★ Java
- ★ Pandas
- ★ Numpy
- ★ Scikit-Learn
- ★ Tensorflow

ACHIEVEMENTS

- ★ 2nd Runner's up in witty hacks 3.0
- ★ 7th in E Cell NitB Hackathon
- ★ Top 15 Among 250 teams in Postman Bits hackathon 99.45 %ile in JEE Mains 2020

LANGUAGES

English,Hindi,Marathi

and high accuracy groups, achieving an overall accuracy of 95.35%.
- Focus on enhancing the performance of the ANN model, displaying promise with 97.51% accuracy.

Dog Breed Classification - Python | Tensorflow | Sklearn | Pandas | Numpy

- Mission: Classify dog breeds from images, exploring diverse challenges in the delightful world of canines.
- Data Source: Utilized a Kaggle dataset, generously shared by the data science community.
- Evaluation Metric: Multi-Class Log Loss used for gauging success, prioritizing precision and accuracy.
- Features: Analyzed and classified dog breeds using deep learning, primarily focusing on unstructured image data.
- Models Explored:
    - Leveraged MobileNetV2 as the foundational model.
    - Ongoing exploration for further model enhancements.
- Journey Highlights:
    - Data Extraction: Unzipped image files, laying the groundwork for comprehensive analysis.
    - Data Split: Divided the dataset into training and validation sets for robust model training and testing.
    - Model Training: Applied transfer learning with MobileNetV2, transforming data into valuable insights.
    - Validation: Achieved a remarkable 94.96% accuracy on the validation data.
- Future Exploration:
    - Continual pursuit of model refinement for improved breed classification accuracy.
- Impact:
    - Contribution to the field of image classification, highlighting the potential of deep learning in decoding the diversity of dog breeds.

TrackMe — *React.js | Express.js | AppwriteDb | Redux.js*

- Engineered an end-to-end fitness tracking solution encompassing MealPlanner, ExerciseTracker, and HealthAssistant features.
- Devised MealPlanner functionality to oversee daily food intake and track progress over time.
- Established ExerciseTracker to record and monitor physical activity levels throughout the day.
- Integrated a GPT-3 powered HealthAssistant for real-time resolution of health-related inquiries.
- Developed a proactive notification system, sending reminders to users 5 times a day to stay focused on their fitness goals.
- Website Score :
    - Performance : 99
    - Accessibility : 94
    - BestPractices : 100
    - SEO : 100
    -

EDUCATION

Maulana Azad National Institute of Technology Bhopal, Bhopal—
B.TECH Computer Science

Nov 2020 - April 2024

CGPA : 8.82