Amulya Dukunta

Full Stack Software Engineer

🏠 Portfolio ⬤ AmulyaD09 in AmulyaDukunta ✉ amulyad99@gmail.com ☎ 7478369999

WORK EXPERIENCE

BEEHYV SOFTWARE SOLUTIONS | SOFTWARE DEVELOPER

June 2022 – Current | Hyderabad, India

- Outbreak Responder
  - ➔ Played a key role in developing a **Django backend system** for a mobile app dedicated to diarrhea patients, collaborating closely with healthcare experts to deliver personalized treatment suggestions based on patient inputs.
- Organo (Driven by a commitment to develop farm centric Rurban communities)
  - ➔ Developed a Django web application integrating **Django Rest APIs** and built a **responsive frontend** to enhance the user experience with an intuitive interface.
- Dremio (Data lakehouse platform)
  - ➔ Actively resolved issues, collaborated cross-functionally, and improved software stability through **regression testing**, enhancing Dremio's **quality by 9%**.
  - ➔ Developed Python **automation tests**, API testing, leveraging **CI/CD** practices to enhance software quality achieving **21% operational efficiency gains**.
  - ➔ Acquired expertise in query processing, distributed systems, data replication while creating an efficient automation framework for Dremio Cloud to seamlessly validate and support **AWS and Azure cloud platforms**.

INTERNSHIPS AND PROJECTS

FULL STACK DEVELOPMENT TRAINEE | NXTWAVE

Mar 2022 - May 2022

- ➔ Developed visually appealing and interactive web applications using HTML, CSS, JavaScript, and **React**, including functional clones of popular websites to showcase the ability to recreate complex features and user interfaces.

Movie Recommendation Web Application

- ➔ Created a dynamic web app, resembling Netflix, that recommends films based on user preferences and a diverse range of categories and genres.
- ➔ Enhanced user experience by implementing movie thumbnail display, trailer showcasing, and utilized TMDB API for fetching movie data. Deployed the web application on Firebase.

MACHINE LEARNING INTERN | VERZEO

June 2021 - Aug 2021

Human fall detection

- ➔ Developed a deep learning model using **YOLOv3** for real-time detection of human falls in surveillance videos, achieving **96% accuracy** by analyzing slow features with **CNN and LSTM**.
- ➔ Generated **bounding boxes** from extracted frames, considering aspects like aspect ratio, fall angle, effective area, gradients, and affinity to enhance the accuracy and performance of the model.

Stress Detection of Individual using EDA signals | Thesis Project

- ➔ Detected the Stress conditions of an individual (low, medium, high) using **Electrodermal Activity data** recorded from the skin conductance sensors that will help to notify person and thereby preventing stress-related diseases.
- ➔ Utilized machine learning classifiers such as **SVM, Random Forest, and LDA** for detection, along with various data visualization and feature extraction techniques. LDA achieved the **highest accuracy of 85.29%**

SKILLS

PROGRAMMING

- Python • C++ • SQL
- HTML • CSS • JavaScript

LIBRARIES/FRAMEWORKS

- Node.js • React • Django
- Django Rest framework

DATABASES

- MySQL • MongoDB

TOOLS/PLATFORMS

- VSCode • GitHub • Jira
- PyCharm • Linux • Jenkins

EDUCATION

IIT KHARAGPUR

B.TECH IN MINING
Grad.May 2022
CGPA: 7.07

NARAYANA JR. COLLEGE

Higher Secondary | State Board
May 2017 | Hyderabad
Marks: 94.5%

KAKATIYA HIGH SCHOOL

Secondary | State Board
April 2015 | Suryapet, Telangana
CGPA: 9.7

POR | CO-ORDINATOR

Spectra(fine arts society)
Jun 2019 - Jul 2020 | IIT kharagpur

- Organized art events and workshops such as art bud, Inktober and art beat
- Orchestrated art exhibitions and cultural night

INTERESTS

- Painting
- Podcasts
- Reading Blogs
- Badminton
- Books