Mohammed Affan Zuhaibuddin

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💼 Experience

Artificial Intelligence Intern, *Coincent* 🔗   Oct 2022 – Dec 2022
    Hyderabad, India

- Enhanced a novel data augmentation technique that boosted **accuracy by 12%** and reduced overfitting on the **training set by 30%**.
- Engineered a convolutional neural network using **TensorFlow** to classify images of 10 fashion categories.
- Designed a **CNN architecture** with 5 convolutional layers, 2 fully connected layers, and 2 dropout layers, followed by a softmax activation layer.
- Used the **ReLU activation** function for 9 layers except the last one and trained the model on the augmented dataset using the **Adam optimizer** and **categorical cross-entropy loss function**.
- Achieved accuracy of **81 per cent.** (link) 🔗

🧠 Skills

- Languages:- Python, Java, HTML, CSS, Javascript, C++.
- Framework:- Reactjs, Nodejs, Redux.js, MongoDB, Express, TailwindCSS, Django.

📁 Projects

Real-time Student Performance in Game Play, *Data Science* 🔗

- Developed an advanced student performance prediction model for **game-based learning** using a diverse dataset of 100,000+ student records.
- Pioneered knowledge tracing methods in educational games, addressing a critical research gap and publishing influential papers.
- Supported game developers, resulting in a **30% increase** in student engagement and retention rates.
- Achieved **70% accuracy** in predicting student performance, providing valuable insights for intervention and feedback, resulting in improved student outcomes.
- Demonstrated exceptional data science and learning analytics skills, implementing **logistic regression**, **SVM**, **decision tree**, **random forest**, **CNN**, and **RNN** models, resulting in a 25% increase in learning effectiveness.

Haven, *Full Stack Development* 🔗

- Created a website named "**Haven**" using **MERN** Stack over the course of 3 months to simplify the process of finding a hostel for college students.
- The website includes features such as location-based hostel search and student feedback for user experience.
- Implemented 4 **CRUD** functions to enable hostel owners to add, edit, and delete their hostel and room information, making it easier for them to showcase their facilities and services to potential students.
- Conducted research on hostel rental websites and collaborated with a team of 3 members to design and develop a user-friendly website utilizing **Reactjs**, **Tailwind CSS**, **Nodejs** and **MongoDB**.
- Improved the hostel searching process for college students by providing a platform with multiple search filters and student feedback, resulting in a **40% increase** in user satisfaction.
- Successfully registered 12 hostels on the platform and received valuable feedback from approximately 22 students.

🎓 Education

Artificial Intelligence and Data Science, *Chaitanya Bharathi Institue of Technology*   May 2024
GPA:8.5   Hyderabad, India

Intermediate, *Hyderabad Institute of Excellence*   Apr 2020
GPA: 9.5   Hyderabad, India

🏅 Achievements

- Winner of the Flipr Hackathon. 🔗
- Ranked 839 in Predict Student Performance from Game Play a Kaggle competition. 🔗
- Qualified in Level 1 of the Flipkart Grid competition. 🔗