

Tushar Amritfale

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EXPERIENCE

INTELLECT DESIGN ARENA | FULL-STACK AI ENGINEER

Oct 2024 – Present

- Enhanced an existing LSTM-based time series forecasting model for inventory management.
- Conducted in-depth data analysis and added lag and rolling window features, improving model accuracy from 80% to 92%.
- Contributed to optimizing inventory levels and reducing overstocking costs through improved forecast reliability.
- Resolved challenges in facial recognition for users capturing from lower angles and for users wearing spectacles.
- Implemented multi-frame image capture, cropped and aligned faces to improve recognition accuracy.
- Updated the Flask-based backend and user interface to integrate changes for a seamless experience.
- Delivered a robust solution tailored for real-world authentication scenarios.

PROJECTS

AWS-ROUTE53-DASHBOARD | A DNS MANAGER

- **Tools & Technologies used :** ReactJs , NodeJs , AWS Route53 API , Clerk , TypeScript
- A web App to provide a central dashboard for automating management of domains and DNS records in bulk on AWS Route 53.
- Visualize record distribution in domains.
- Implemented search option for easy bulk data navigation.
- Integrated JSON bulk upload for records data.
- Implemented API calls for CRUD operations on DNS records

CODE-COLAB (Demo-Video) | REAL-TIME CODE EDITOR

- **Tools & Technologies used :** ReactJs , WebSocket , GraphQL , MongoDB
- Developed a live code sharing platform supporting multiple programming languages , enabling real-time collaboration among multiple users .
- Implemented login authentication and authorization system to ensure user privacy and data protection .
- Designed and integrated a messaging and broadcasting functionality for seamless communication and collaboration within the platform .
- Enabled simultaneous editing and live code changes by multiple users , enhancing collaborative programming capabilities .

SPEECH EMOTION RECOGNITION

CONVOLUTION NEURAL NETWORK BASED MODEL

- Emotion speech recognition is the task of automatically detecting and classifying the emotions.
- Accuracy : **93%**
- Dataset: RAVDESS, TESS, CREMA-D, SAVEE.

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY , BHOPAL

BACHELOR OF TECHNOLOGY IN
COMPUTER SCIENCE

May 2024

CGPA: 7.7

SKILLS

PROGRAMMING

Languages : C/C++ , Python , Java(basic)

Full Stack Development : HTML , CSS ,
ReactJs , NodeJS , ExpressJs , Javascript

Databases : MySQL , MongoDB

TOOLS AND TECHNOLOGY

- Git/Github
- Visual Studio Code
- Linux
- Artificial Intelligence

SOFT SKILLS

- Teamwork
- Communication
- Problem Solving

COURSEWORK

- Data Structures and Algorithms
- Database Management System
- Operating System
- Machine Learning
- Object Oriented Programming(OOPS)

ACHIEVEMENTS

Solved 600+ question on GeeksforGeeks and Leetcode.

LINKS

Github:// [TusharAmritfale](#)

LinkedIn:// [TusharAmritfale](#)

Portfolio:// [TusharAmritfale](#)

GeeksforGeeks:// [TusharAmritfale](#)

Leetcode:// [TusharAmritfale](#)