Aditya Shah

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Experience

Wells Fargo July 2022 - present

Software Engineer

- Enhanced system performance by implementing clean architecture and parallelizing stored procedures, reducing response time by 25%.
- Improved NLP automation by fine-tuning DistilBERT for intent and entity extraction.
- Built a notification service using MongoChangeStreams and SSE, streamlining email/push notifications.
- Automated Day 1 onboarding with a Neo4j and C# provisioning tool, enabling immediate productivity.

Summer Intern May 2021 - July 2021

- Designed an interpretable Deep Neural Network for credit risk modeling with AUC of 0.89, enhancing model transparency using Alethia and LIME.

Samsung Research Institute Bangalore May 2020 - July 2020

Summer Intern

- Developed a rule-based network classifier using Quality of service parameters, optimizing data collection via socket programming.

Projects

Deepfake Detection System

- Achieved 96% video and 91% audio detection accuracy by implementing XceptionNet and ensemble models, enhancing model robustness.
- Improved feature extraction by incorporating MFCC, LFCC, and GFCC, resulting in higher predictive precision.
- Skills: TensorFlow, XceptionNet, Ensemble Models, Specialized Audio Features (MFCC, LFCC, GFCC)

Social Street View

- Developed an interactive platform with spatial and sentiment analysis features, enabling real-time user insights.
- Implemented sentiment analysis to provide real-time insights into user-generated content, enhancing community interaction and topic trends tracking.
- Skills: GraphQL, React.js, Apollo, Sentiment Analysis, Neo4j

Remaining Useful Life Prediction of ball bearings

- Predicted bearing lifecycle with Gaussian models and wavelet transforms, achieving high accuracy in early-stage degradation.
- Processed noisy time-series data using wavelet transforms to enhance model performance and fault detection.
- Skills: Gaussian Processes, Wavelet Transforms, Time-Series Analysis, Pytorch

Flappy Bird AI

- Trained an AI agent using the NEAT algorithm to autonomously play and beat the Flappy Bird game.
- Developed the game environment using Pygame, simulating realistic physics for challenging gameplay and accurate AI training.
- Skills: NEAT Algorithm, Pygame, AI Training, Genetic Algorithms

Education

Veermata Jijabai Technological Institute 2022

BTech. IT (GPA: 8.94 / 10) *Mumbai, Maharashtra*

Technical Skills

Languages: C#, Python, JavaScript, C++, Solidity, Java
Technologies: .Net6.0, Tensorflow, Pytorch, React.js, Flask, Neo4J, Express.js, Node.js