Aksha Thakkar

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Education

Ira A. Fulton Schools of Engineering, Arizona State University	**Tempe, AZ, USA**
Master of Science in Computer Science	*August 2021 - Present*

Institute of Technology, Nirma University	**Ahmedabad, India**
B.Tech in Information Technology , 7.62/10	*June 2017 – May 2021*

Courses: Database Management Systems, Object-Oriented Programming, Deep Learning, Cloud Computing

Experience

Teaching Assistant   **Tempe, AZ, USA**
W. P. Carey Business School, Arizona State University   *Sept 2021 – June 2021*
+ Responsible for evaluating and grading for the course CIS 505: Intro to Enterprise Analytics.
+ Assisted with coursework containing Database Management, Relational Models, Data Analytics and Visualization with tableau.
+ Under guidance of professor : Dr. Tamuchin McCreless

Data Science Intern   **Bangalore, India (Remote)**
Jio Platforms Limited (JPL AI CoE)   *January 2021 – June 2021*
+ Responsible for developing binary and multi-class prediction models, analyze them and evaluate them for sports analytics.
+ Applied python libraries like sklearn, pandas, pycaret, selenium to create and deploy models, for data engineering and visualization.
+ Delivered statistical analysis modules for data in telecom industry.

Software Development Intern   **Mumbai, India (Remote)**
Pentaforce Printing Softwares   *May 2020 – July 2020*
+ Developed a web application for data visualization of working and efficiency of a cluster of machines and generating quality assessment and idle time reports.
+ Used PHP, MySQL for website development and ChartJS for data visualisation.

Co – Founder   **Ahmedabad, India**
Reado   *December 2020 – July 2020*
+ Developed a web interface that enables users to connect with reading rooms near their city online. Also gathered owners of reading rooms and convinced them to join this venture.
+ End users can book time slots, pay entry fees and subscribe to the website for more benefits. Reading rooms can add their own information and timings. Web – based technologies like PHP, HTML/CSS, and NodeJS used.

Skills and Expertise

+ **Languages:** Java, Python, C/C++, JavaScript

+ **Tools and Technologies:** MySQL, Tensorflow, OpenCV, PyTorch, NodeJS, Git, Android, Visual Studio, Scikit learn, ChartJS, Unreal Engine

Academic Projects

+ **Idea Lab (2021)**
  - Funded research project to develop a self-sentient robot for bomb disposal using Reinforcement Learning techniques. Goal to make a robot that is able to diffuse a bomb on its own without human interference.
  - Worked on Monte-carlo methods and Actor Critic Methods for path planning on a robot. Tested reaching desired goal in a simulated environment.

+ **Stonks_3.0 (2021)**
  - Contributed to the project for Prediction of Stock Prices using Twitter Sentiment Analysis. This project is part of Unit of Data Science by the Data Science and Analytics Lab at Arizona State University.
  - Implemented a flair (DistilBERT) based Sentiment Analysis of tweets extracted from Twitter API. Tested and compared data on AAPL, TSLA and MSFT stock prices.

+ **Exoplanet Detection and Checking habitability (2019)**
  - Implemented a Deep Learning model on Kepler's Object of Interest data from NASA archive with PHL's exoplanet catalog data to identify exoplanet and check their habitability. Achieved 92% accuracy bettering results from basic machine learning classification approaches.

+ **Decentraland Hackathon (2019)**
  - Developed a virtual reality first person shooter game as part of the decentraland hackathon. Used SDK provided by the competition organizers based on TypeScript.

+ **Student management System (2019)**
  - Developed a student management system to manage information of a student like attendance, examination marks and administrative data. Used NodeJS, HTML, CSS, JavaScript , Jquery and AJAX.

Publication

+ Author : "An online planning agent to optimize the policy of resource management" , Int. Conference of Computing Communication and Cyber Security(IC4S 2020) supported by Springer.

Positions of Responsibility

+ General Secretary, Computer Society of India : Organizing and managing events and coding competitions.

+ Team member, Arrow : Machine Learning assist for University team for AUVSI SUAS competition. Worked on detection and classification of objects from images taken by an aerial unmanned vehicle.