Abhishek A. Mishra

https://abhiamishra.github.io

Work Authorization: Authorized to work - have EAD

EDUCATION

The University of Texas at Dallas

Bachelor of Science in Computer Science; GPA 4.0/4.0. Minor in Spanish; GPA 4.0/4.0

August 2020 - May 2023

Email: abhiamishra0@gmail.com

SKILLS

Programming Languages: Java, Python, R, JavaScript, C++, TypeScript, Unix, Node.js

Frameworks: tidyverse, dplyr, XGBOOST, Git, OpenCV, Pandas, Matplotlib, Linux, Firebase, FastAPI, Alembic,

SQLAlchemy, knitr, ShinyR, ggplot2, Caret

Relevant Coursework: Data Structures and Algorithms, Linear Algebra, Probability and Statistics, UNIX, Java

Languages: English, Hindi, Spanish

Work

CS Research Lab for Professor Tien Nguyen

University of Texas at Dallas Jan 2023 - Present

Research Assistant · Linux, MUDetect, Tmux, Maven, Ant, Java, Docker

o Accelerated the work on building gwt and android projects with Maven, Ant, and Java and sped up workflow by 50%. o Utilized the faculty top-of-the-line Ares server and sped up data pre-processing by 30% with the use of Linux and Tmux

- Used **Docker** to replicate **SnR model** to provide comparison metrics to model.
- o Aided graduate students with day-to-day code-work and debugging for their projects resulting in a 40% increase in productivity.

PROJECTS

ggshakeR (https://github.com/abhiamishra/ggshakeR)

Creator/Maintainer $\cdot R$, Markdown

Oct 2021 - Present

- o Pioneered the creation of R's 1st all-in-one visualization and analysis package for openly available soccer data.
- Authored 9 functions while working with other contributors, as an open source project, to co-author 5 functions. Functions are compatible with JSON data and specific APIs while also supporting the use of webscraped data.
- o Coded function use cases range from data wrangling, visualization, and implementation of complicated analysis such as Markov chain analysis
- o Contributor to the official landing page with Github Pages that experiences an average of 1000+ views and 100+ unique vistors per week. Initial release and updates invite upwards of 1500+ views on the package daily.
- o Recognized by various international open-source communities and package aggregators such as PySport and LibHunt while being one of the most in-demand packages in the soccer analytics community.

HackDFW 2022 Themis

Backend Developer/MLOps Developer · Python, FastAPI, MongoDB, SpaCy, NLTK, Heroku

September 2022 - September 2022

- o Innovated the backend to create an automated ML pipeline that retrieved, analyzed, and stored text data for more than 500+ Supreme Court cases.
- o Utilized NLTK Tokenization and SpaCy model to automatically parse and extract key information from advanced legal documents
- Worked with MongoDB to store processed data for 500+ documents and used FastAPI to provide seamless connection for the app. Deployed the entire application on Heroku.
- Led teammates to create an interactive demo which resulted in the project being picked as the final 7 projects in a pool of 500+ competitors.

emo7ion - AIM Showcase Project

Backend Developer · Python, Tensorflow, Keras, AWS S3, AWS SageMaker

Feb 2022 - May 2022

- o Created a real-time model using Python and Tensorflow/Keras libraries to be able to detect emotion from facial analysis.
- o Stored images for training the model in Amazon S3 buckets with AWS S3.
- o Constructed and trained the image-classification model in AWS Sagemaker and deployed it on AWS Sagemaker Endpoint.
- o Presented a live working demo to a panel of UTD Computer Science Professors.

ACHIEVEMENTS

Top 7 Finalist at HackDFW22: Selected in the finals among 550+ participants and presented in front of VIP Judge Panel Dean's List: Fall 2020/Spring 2021, Fall 2021/Spring 2022: Ranked in Top 10 % in Erik Johnsson School of Engineering and Computer Science

2nd Place at HackReason 2022: Ranked 2nd among 70 teams of undergraduates and graduates.

Richardson, Texas

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