

Abhishek A. Mishra

<https://abhiamishra.github.io>

Work Authorization: Authorized to work - have EAD

Email : abhiamishra0@gmail.com

Mobile : +1-313-913-6629

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

Richardson, Texas

August 2020 - May 2023

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

PROJECTS

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

Creator/Maintainer · 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**.
- o **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 visitors 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.

Themis

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

HackDFW 2022

September 2022 - September 2022

- o **Led 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
- o Worked with **MongoDB** to store processed data for **500+ documents** and utilized **FastAPI** to provide seamless connection for the app. Deployed the entire application on **Heroku**.
- o **Worked with teammates on an interactive demo** which led to the project being picked as the **final 7 projects in a pool of 500+ competitors**.

RISE (Risk Identification and Student Evaluation)

Lead Developer · Prolog, s(CASP)

HackReason 2022

Jan 2022 - Jan 2022

- o **Led team of 4 to 2nd place finish** by creating an **artificial intelligence model** that allowed teachers and advisors to identify students at risk and deliver a personalized diagnosis for them.
- o Utilized **UTD's novel s(CASP) model** to **construct logic for risk identification** and connecting it to **student recommendation system**.

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 Worked with **AWS S3** to store the images for training the model in **S3 Buckets**.
- 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.