Chinmay Mokashi

Houston, TX

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Education

University of Texas Health Science Center at Houston (UTHealth)

Houston, TX

Jan 2021 - Current

MS in Biomedical Informatics

- · Graduate Researcher
- Teaching Assistant for Machine Learning class
- · Courses: Medical Imaging and Signal Pattern Recognition, Big Data, Machine Learning, Statistics in Biomedical Informatics

National Institute of Technology, Rourkela

Rourkela, India

BTech in Biomedical Engineering

August 2012 - May 2017

· Specialized in digital health and embedded systems

Work Experience

iOPEX Technologies Bengaluru, India

Senior Software Engineer - Data Engineering

May 2019 - December 2020

- Led a team of 3 in data engineering design, primarily based on Google Cloud Platform.
- Built ETL pipelines to clean, structure and train user emails to create custom email categories.
- Used logistic regression and SVM to categorize emails into 10 non-exclusive labels (best AUC 0.84)
- · Worked on time-sensitive ad-hoc data analysis projects, such as insurance and time series transactions data.

AthenasOwl, Quantiphi Inc.

Mumbai, India

Data Engineer

ineer January 2018 - January 2019

- Ideated and developed data infrastructure and architecture of the AthenasOwl ML platform
- Built a Gateway API for authorization, authentication and user management of a multi-tenant platform-as-a-service (PaaS) infrastructure.
- Researched, designed and implemented a custom ML platform on a Kubernetes cluster using docker APIs.
- Collaborated with UI/UX vendor to create PaaS platform interfaces.

University Projects.

Developing an automated 3D image segmentation AI tool to screen for endometriosis

Houston, TX

UTHealth

August 2022 - December 2022

• Researched and implemented U-Net (CNN) based nnU-Net pipelines on annotated 3D MRI sequences for semantic image segmentation (Average Dice score - 0.75). Collaborated with healthcare professionals to review, annotate/segment and clean MRI data.

Visualization tool to identify misinformation on YouTube regarding vaping

Houston, TX

UTHealth

May 2021 - August 2021

 Identified misinformation using supervized and unsupervized (topic modeling) ML techniques on self-generated and labeled dataset of Youtube video metadata.

Purely client-side web-application to predict the risk of acute stroke in patients using OCTA images

Houston, TX

UTHealth

Jan 2022 - May 2022

- · Built a web-application with image processing and vascular metric calculation capabilities on React.JS.
- Trained a ML classifier on OCTA images and deployed on the user interface (AUC 0.81).

X-ray image classification to predict cardiomegaly

Houston, TX

UTHealth

Dec 2022

Using image processing and transfer learning, constructed 10 different data pipelines with different approaches and compared them to identify the best approach. Wrote a paper to report the results.

Skills_

Data Analysis and Machine Learning SQL, Matplotlib, Pytorch, scikitlearn, scikit-image, BERT, Tableau

Data Engineering Google Cloud, MySQL, REST API, MongoDB, PySpark, NLTK

Software Engineering Python, Node, React, Flask, Ansible, BeautifulSoup

Biomedical Data DICOM, Epic EHR, HL7, FHIR, RXNORM

March 31, 2023