Chinmay Mokashi

Houston, TX

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Education

University of Texas Health Science Center at Houston (UTHealth)

Houston, TX

MS in Biomedical Informatics

January 2021 to May 2023

- · 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 to May 2017

· Specialized in digital health and embedded systems

Work Experience

iOPEX Technologies Bengaluru, India

Senior Software Engineer - Data Engineering

May 2019 to December 2020

- Led a team of 3 in data engineering design, primarily based on Google Cloud Platform
- Implemented ETL pipelines to clean, structure and train health emails to create custom categories
- Categorized healthcare emails into 10 non-exclusive labels (best AUC 0.84)
- Worked on time-sensitive ad-hoc data analysis projects, such as health insurance and time series clinical data using MySQL and Oracle SQL

AthenasOwl, Quantiphi Inc.

Mumbai, India

Data Engineer

January 2018 to January 2019

- · Ideated and instituted the data infrastructure and architecture of the digital health AthenasOwl ML platform
- Architected a Gateway API for authorization, authentication and user management of a multi-tenant platform-as-a-service (PaaS) infrastructure for clinical work, using Docker and Kubernetes
- Collaborated with UI/UX vendors to create PaaS platform interfaces

University Projects

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

Houston, TX

Medical AI Researcher

August 2022 to December 2022

 Researched and implemented U-Net (Convolutional Neural Nets) based nnU-Net pipelines on annotated 3D MRI sequences for semantic image segmentation (Average Dice score - 0.88). Collaborated with healthcare professionals to review, annotate/segment and clean MRI data

Built a visualization tool to identify misinformation on YouTube regarding vaping

Houston, TX

Medical AI Researcher

May 2021 to August 2021

 Identified misinformation with 80% accuracy using supervized and unsupervized (topic modeling) ML techniques on self-generated and labeled dataset of Youtube video metadata

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

Houston, TX

Medical AI Researcher

January 2022 to May 2022

- · Programmed a 1-page 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)

Created an X-ray image classifier to predict cardiomegaly

Houston, TX

Medical AI Researcher

December 2022

Using image processing and transfer learning, conceptualized 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,

SOL, Matplotlib, Pytorch, scikitlearn, scikit-image, BERT, Tableau

Data Engineering

Google Cloud, MySQL, REST API, Linux, MongoDB, PySpark, NLTK

Software Engineering

Python, Node, React, Flask, Ansible, BeautifulSoup

Biomedical Data

DICOM, Epic EHR, HL7, FHIR, RXNORM

May 19, 2023