

Chinmay Mokashi

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EDUCATION

- **University of Texas Health Science Center at Houston (UTHealth)** Houston, TX
Master of Science in Biomedical Informatics January 2022 - May 2023
Courses: Medical Imaging and Signal Pattern Recognition, Big Data, Machine Learning, Statistics in Biomedical Informatics
- **National Institute of Technology, Rourkela** Rourkela, India
Bachelor of Technology in Biomedical Engineering August 2012 - May 2017

SKILLS SUMMARY

- **Data Analysis and Machine Learning:** SQL, Pandas, Numpy, Matplotlib, nnU-Net, Pytorch, scikitlearn, scikit-image
- **Data Engineering:** Google Cloud, MySQL, REST API, MongoDB, PySpark, BeautifulSoup, NLTK, YouTube Data API
- **Software Engineering:** Python, Node, React, Flask, Ansible

EXPERIENCE

- **School of Biomedical Informatics, UTHealth** Houston, TX
Graduate Researcher - Imaging Informatics & Social Media May 2022 - December 2022, May 2021 - September 2021
 - **Projects**
 - * Building an automatic deep learning tool to screen patients for endometriosis
 - * Building an automatic deep learning tool to screen patients for inverted papilloma
 - * Built a visualization tool to identify misinformation on YouTube regarding vaping
 - **Tasks**
 - * Implemented nnU-Net pipelines on annotated 3D MRI sequences and CT images
 - * Collaborated with healthcare professionals to review, annotate and clean MRI data
 - * Created a data pipeline to analyze Youtube comments
 - * Built a Flask application to label Youtube videos into predefined categories
 - * Used the Youtube Data API to collect and analyze data and looked for trends
- **School of Biomedical Informatics, UTHealth** Houston, TX
Student, Directed Study January 2022 - May 2022
 - **Project**
 - * Built a purely client-side web-application to predict the risk of acute stroke in patients using OCTA images
 - **Tasks**
 - * Built a frontend web-application with image processing capabilities on React.JS
 - * Trained a ML classifier on OCTA images and deployed on the user interface
- **iOPEX Technologies** Bangalore, India
Senior Software Engineer May 2019 - December 2020
 - **Project**
 - * Built a custom email classifier for a British telecommunications company
 - **Tasks**
 - * Built ETL pipelines to clean, structure and train user emails to create custom email categories
 - * Performed exploratory data analysis of time-series insurance data, and extracted key insights
- **AthenasOwl, Quantiphi Inc., Mumbai, India** Mumbai, India
Data Engineer January 2018 - January 2019
 - **Project**
 - * Built data infrastructure and architecture of the AthenasOwl ML platform
 - **Tasks**
 - * Built a Gateway API for authorization, authentication and user management of a multi-tenant platform-as-a-service (PaaS) infrastructure
 - * Leveraged GCP services to build a create-and-destroy architecture based Machine Learning solution
 - * Researched, designed and implemented a custom ML platform on a Kubernetes cluster using docker APIs

CERTIFICATIONS

- **Google Cloud Professional Data Engineer** Worldwide
<https://cloud.google.com/certification/data-engineer> September 2018 - September 2020