

# 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, PySpark, BeautifulSoup, NLTK, YouTube Data API
- Software Engineering:** Python, Node, React, Flask

## EXPERIENCE

- School of Biomedical Informatics, UTHealth** Houston, TX  
*Graduate Researcher - Imaging Informatics & Social Media* May 2022 - May 2023, 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