

Chinmay Mokashi

Linkedin: <https://www.linkedin.com/in/chinmay-mokashi/>

Github: <https://github.com/chinmaymokashicm>

Email : chinmaymokashicm@gmail.com

Mobile : +1-346-339-7614

Personal Website: <https://chinmaymokashi.page>

SUMMARY

Passionate data analyst with a 5+ years of experience in data processing, analysis, machine learning, software and data engineering. Adept in communicating with stakeholders of varying domains, and understanding user needs.

EXPERIENCE

- Harris Health System** Houston, TX
Data Analyst - Intern January 2023 - May 2023
 - To assess the diagnostic characteristics of the Epic Sepsis Predictive Model (ESPM)
*Writing **complex SQL queries** on Oracle databases containing Epic EHR data of 3+ million patients to derive computations and generate information to be used to analysis. Analyzing occurrence of sepsis during hospitalization or emergency visits.*
- School of Biomedical Informatics, UTHealth** Houston, TX
Graduate Researcher January 2021 - May 2023
 - Built separate automatic deep learning tools to screen patients for endometriosis and inverted papilloma
*Researched and implemented U-Net (CNN) based nnU-Net pipelines on annotated 3D MRI sequences and CT images for semantic image segmentation. **Collaborated with healthcare professionals** to review, annotate/segment and clean MRI data. Performed **text processing** on radiology reports to extract key information such as MRNs and endometriosis status. Analyzed deep learning outcomes and **created reports**.*
 - Built a visualization tool to identify misinformation on YouTube regarding vaping
*Created data pipeline to analyze **Youtube comments**. Built a Flask application to label Youtube videos into predefined categories. Used the **Youtube Data API** to collect, de-identify and analyze data and looked for trends. Applied **machine learning techniques to analyze patterns**. Presented results using Streamlit.*
- iOPEX Technologies** Bangalore, India
Senior Software Engineer May 2019 - December 2020
 - Built a custom email classifier for a major British telecommunications company
*Led a team of 3, 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)**.*
 - Performed data analysis tasks on ad-hoc basis
*Worked on time-sensitive ad-hoc data analysis projects, such as insurance and time series transactions data. **Presented reports** of same to stakeholders.*
- AthenasOwl, Quantiphi Inc.** Mumbai, India
Data Engineer 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. 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. Collaborated with UI/UX vendor to create PaaS platform interface.*

PERSONAL PROJECTS

- X-ray image classification to predict cardiomegaly:** 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.
- Interactive patient dashboard:** Using a large synthetic NoSQL database, constructed a dashboard for patient information with querying and visualization capabilities. Used MongoDB, React.JS, Node.JS and Recharts.JS.
- Authentication and Authorization API:** Designed and built a gateway router for authentication and authorization of user requests on to a PaaS cloud platform. Used Node.JS, GCP services and Kubernetes.

EDUCATION

- University of Texas Health Science Center at Houston (UTHealth)** Houston, TX
Master of Science in Biomedical Informatics January 2021 - 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

CERTIFICATIONS

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

Worldwide
September 2018 - September 2020