



Shloke Meresh

@ shloke01meresh@gmail.com |  github.com/shloke01 |  shloke01.github.io

EDUCATION

BA, Grinnell College

Grinnell, IA

Majors: Computer Science (GPA: 4.00/4.00) and Economics (GPA: 3.92/4.00)

May 2023

Minor: Statistics (GPA: 4.00/4.00)

Honors: Phi Beta Kappa, Dean's List, Published for 3rd place in USCLAP statistics competition

Relevant coursework: Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Linear Algebra, Discrete Math, Automata, Machine Learning, Software Design & Development

SKILLS

Programming: Python, C, C++, Java, JavaScript, HTML5, CSS3, Kotlin, SQL, R, Scheme, XML

Libraries: Pandas, Numpy, Matplotlib, Scikit-Learn, PyTorch, React, BeautifulSoup, GGPlot, Plotly

Frameworks/Tools: GCP, Flask, JupyterLab, MongoDB, Kafka, Looker, PostgreSQL, SQLAlchemy, Firebase, Git

Languages: English (Native), Hindi (Native), French (Elementary), Hungarian (Elementary)

WORK EXPERIENCE

CapsicoHealth Inc.

Palo Alto, CA

Data Engineer

July 2023 – Present

- Implemented dynamic BigQuery stored procedures that streamline and automate complex SQL queries, improving functionality and reducing execution time by 40%, enhancing operational efficiency
- Developed full-stack Flask-based applications that leverage generative AI models to allow users to compare drugs, summarize clinical trials, and explore patients' medical journeys, facilitating easy access to vital research insights

Computer Science Department, Grinnell College

Grinnell, IA

Computer Science Peer Tutor

Jan 2023 – May 2023

- Aided 60+ students in grasping complex concepts and debugging code in functional, procedural and object-oriented programming courses
- Delivered comprehensive tutoring reports to professors, suggesting modifications and enhancements to intro courses

CapsicoHealth Inc.

Palo Alto, CA

Data Engineering Intern

Jun 2022 – Aug 2022

- Engineered robust automation solutions for large-scale ETL operations, empowering developers and analysts to execute complex data transfer and transformation tasks with a single, user-friendly click
- Developed code templates for seamless integration between BigQuery and Looker, improving data accessibility for the analytics team

Economics Department, Grinnell College

Grinnell, IA

Data Science Research Assistant

Aug 2021 – Dec 2021

- Prepared large datasets for analysis by cleaning, wrangling and manipulating raw field survey data from Ethiopia
- Communicated insights through informative visualizations that identified and explained key patterns in data

PROJECTS

Student Performance Prediction

A machine learning project that uses decision trees and gradient boosting methods (CatBoost, XGBoost) in a stacked ensemble to predict students' answer correctness (F1 score of 0.78) based on gameplay data (Python)

Custom Cover Letter Generator

A full-stack Flask app that leverages large language models to allow users to generate tailor-made cover letters based on a given resume and job description (Python, HTML, CSS, JavaScript)

Nationality Prediction from Surnames

An NLP project that trains an RNN (recurrent neural network) on name data from 6 countries, in order to predict a person's nationality as well as generate names for each nationality based on given starting characters (Python)

Systems Poker

A live multiplayer poker game program built using networks/distributed systems, and thread synchronization (C)

Cadenza

A social media Android app that uses Firebase storage and REST APIs to allow users to post song recommendations and share them with friends (Kotlin, XML)