



Shloke Meresh

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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, 3rd place in USCLAP nationwide undergraduate 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, JavaScript, Java, SQL, C, C++, HTML5, CSS3, Kotlin, R, Scheme, XML
Libraries: Pandas, Numpy, Scikit-Learn, PyTorch, React, ReactNative, BeautifulSoup, GGPlot, Plotly
Frameworks/Tools: GCP, AWS, Flask, JupyterLab, MongoDB, PostgreSQL, SQLAlchemy, Firebase, Looker, 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 in ETL, improving functionality and reducing execution time by 40%, thereby enhancing operational efficiency
- Developed a Python (Flask) web service that facilitates the training, deployment and prompting of custom RAGs and Large Language Models, enabling non-technical users to train and use sophisticated models on-demand, democratizing access to advanced generative AI capabilities
- Liaised with clients to deliver customized analytics solutions regarding drug adoption and medical device usage, utilizing advanced data engineering techniques and interactive dashboards to drive impactful decision-making

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 a large language model 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)