



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

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, HTML, CSS, Kotlin, SQL, R, Scheme, XML

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

Frameworks/Tools: GCP, BigQuery, Looker, Android Studio, Firebase, Posit (RStudio), RShiny, Git, Bash

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

WORK EXPERIENCE

Computer Science Department, Grinnell College

Grinnell, IA

Computer Science Peer Tutor

Jan 2023 – May 2023

- Aided students in grasping complex concepts in functional, procedural, and object-oriented programming courses
- Collaborated with students to debug their code and provided tailored guidance in improving their understanding and coding proficiency
- 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

- Automated ETL processes such as data transfer and transformation between FTP servers and GCP buckets using Python scripts, resulting in significant time and cost savings
- Developed code templates for seamless integration between BigQuery and Looker, improving data accessibility for the analytics team
- Optimized SQL querying using code generation and stored procedures, reducing query lines by 70%

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 data visualizations that identified and explained key patterns in data
- Facilitated collaboration amongst team by setting up a development environment for professors and other RAs

CapsicoHealth Inc.

Palo Alto, CA

Data Science Intern

Jun 2021 – Aug 2021

- Developed predictive models around patient health using Google BigQuery ML tools, achieved a true positive rate of 94% in predicting hospital re-admissions
- Created Looker dashboards with visualizations of US Obesity and Diabetes trends to aid clients in developing preventive care measures
- Wrote technical documentation for workflows and training modules that reduced employee onboarding time by 50%

PROJECTS

Student Performance Prediction

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

Systems Poker

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

GAInES

A web application created by an agile software development team that aims to explore the intersection between AI and ethics using interactive museum gallery-style modules (RShiny, HTML, CSS)

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)

Password Cracker

A brute-force MD5 encrypted password cracker using parallel processing with threads, achieved the fastest time in a class with 30+ groups (C)