Resume

Personal Details:

Name: Cosmin Deshmukh

Email: cdeshmukh@berkeley.edu

Date of Birth: 10/09/2001

Current School: University of California Berkeley

Year: Junior

Major: Computer Science and Data Science major

Skills:

- Advanced skills in Python, Java, JavaScript, R, and SQL.
- Advanced skills in the optimization algorithm, gradient descent, and the predictive analysis model logistic regression.
- Advanced skills in various Python libraries: Pandas, Network X, Numpy, and Sckit-learn.
- Advanced skills in data visualization models Seaborn and Matplotlib.
- Familiar with Data parsing/cleaning models One-hot-Encoding and Regex.
- Familiar with Geospatial network Open Mappr, and Docker desktop functionality.
- Familiar with Windows and Linux terminals: powershell, fishshell, Windows Command Prompt, and Cygwin.
- Advanced skills in Single Variable Calculus, Multi Variable Calculus, Linear Algebra and Differential equations, and Discrete math. Advanced skills in statistics and probability.
- Advanced skills using ArcGis technologies including ArcMap and ArcScene.
- Familiar with setting up node-functionality across multiple platforms.

Work Experience:

2016 - 2019 (June): **Private Tennis Instructor**

2019 (August) - 2021 (July): **Technical Project Manager at Maya Prep**. Maya Prep is a SAT and ACT tutoring service that also specializes in counseling high school students into getting into competitive universities. My job was to work on special projects; for example, I created an artificial intelligence program that classifies the best college a student can get into (based on acceptance rate) using a variety of parameters such as scores, ethnicity, leadership positions, etc... Employer email: lora007@yahoo.com

2022 (February - May): **Developer for Instanpolis Data Discovery Project.** Headed by Berkeley History Department Faculty member Christine Philliou.The goal is to document/reconstruct the life of Greek Orthodox communities of Istanbul 1821-1923. Currently we are working on creating elementary visuals, and parsing through the raw data.

Projects:

Apartment Suitability Analysis: Using ArcGis technologies I created a map of Berkeley which shows the best and worst places in Berkeley to build apartment buildings based on a variety of factors.

https://storymaps.arcgis.com/stories/eb112a60ae5d4bfc9cca06b0f56e965d

The conclusion of this suitability analysis is that new apartment buildings should be built in the center of Berkeley and just south of Campus. Apartment buildings should not be built in the Northeast corner of Berkeley.

Covid Exploration Project: Created a covid exploration model that predicted cases per capita based on geographical location.

https://docs.google.com/document/d/1_F4eXXOFvBa1dI1wVetEp5j2PlYUwqJ77VZpqCDD5LY/edit?usp=sharing

By computing the pairwise distance between all the states I was able to very accurately predict covid cases per capita. It says I had two project partners but I did the whole thing by myself

NFL Quarterback Project: Created a statistical analysis of what has contributed to the rise of quarterback play in the Nfl. NFL Project (3).pdf493 KB

Accomplishments :

1. Graduated High School with 4.3 gpa, and took 14 AP classes.
2. Won the 2017 Hackathon Competition in high school.
3. Won the 2018 Hackathon Competition in high school.
4. Completed difficult technical courses such as 61A, 61B, math 54, Data 8, and Data 100 at Berkeley
5. 3.0 Gpa at Berkeley