

Vimanyu Awal

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Education

University of Southern California, Viterbi School of Engineering, Los Angeles, CA

Bachelor of Science, Computer Science/Business Administration (GPA: 3.4/4)

Expected May 2020

Skills

Languages: C++, Java, Python, SQL, Swift, Web Dev in HTML, CSS, JavaScript

Applications: Machine Learning, Data Analysis, Artificial Intelligence, Web Dev, iOS dev

Relevant Classes: Discrete Math for Computer Science, Data Structures, Algorithms, Principles of Software Development, Artificial Intelligence, Machine Learning

Work Experience

INDwealth

Summer 2019

Software Engineering Intern - Machine Learning and Data Analytics

Tech: Python, ML models, Neural Networks, numpy, pandas

- **Dynamic Asset Allocation:** Developed a model to optimize capital allocation between debt and equity by estimating if the market is overvalued or undervalued by using indicators such as the PE and PB ratios. Outperformed all existing allocation practices within the company.
- **Condensing Funds:** Developed a machine learning model that would condense a clients' fund holdings. Managed to reduce high fund holding clients' portfolios by 20% without any loss in returns or increase in risk.
- **Sector-wise Indices Projections:** Developed models based on ANN and LSTM models to get a 3 month sector-wise projection of different sectors of the market and shortlist the best performing models.
- **Market Dip Prediction:** Created a model that predicts 10% dips in the market value of market indices with around 90% accuracy.

Uber

Summer 2017

Business Development Intern

- Worked as a business development intern at UberEATS. Was assigned to the launch team of UberEATS in New Delhi. Responsible for Sales and Marketing. Successfully negotiated around 100 contracts with restaurants and marketing deals for them.

Projects

MunchSC

Co-founder and key software developer for MunchSC .This application solves the problem of choice of which dining hall to visit based on your peers' review of the food. I was responsible for most the Swift coding of the app and the SQL backend which we implemented through Firebase. You can find the Project here:

<https://github.com/vimanyuawal/MunchUSC>

Interactive Online Calendar

Created an interactive calendar website that allowed you to share calendars with friends. Implemented this using HTML, CSS, and JavaScript for the frontend. Java and SQL for the backend and Google APIs to implement login functionality and access the Google calendar. Used data structures to rank the users by placing them in a splay tree such that a user's most frequently visited friend's calendar showed up first.

Research

USC Keck Operations Management

Summer 2018

Worked on a research project under Professor Sriram Dasu. Used data from USC Keck Medical Center to perform various data analytics on that data to give metrics such as average patient waiting time, OR room efficiencies, etc. Used Python libraries such as Pandas and NumPy to achieve this. These metrics and other findings were then reported to Keck, with viable solutions to increase efficiency.

Volunteer work

Joint Educational Program

Fall 2018

Volunteered to teach Computer Science to elementary school children