Pransu Dash

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Education

University of California, Berkeley - B.A. Computer Science ***August 2016 - May 2020 (expected)***

- *Completed Coursework:* **Data Structures**, **Algorithms**, **Operating Systems**, **Intro. Artificial Intelligence,** Internet Architecture, Discrete Math and Probability Theory, Computer Architecture, Intro. Electrical Engineering, Intro. Data Science, Probability Theory
- *In Progress:* Machine Learning, Computer Security

Work Experience

UC Berkeley - Research Assistant, *Berkeley, CA* ***January 2018 - September 2018***

- Worked on parsing metrics from self-curated Facebook adverstisements for fake activity detection
- Trained a regression and random-forest model to predict if a user is fake

Microsoft - Software Engineering Intern, *Greater Seattle Area, WA* ***May 2018 - August 2018***

- Full stack development for Visual Studio Team Services, now called Azure Boards (Typescript, C#, **React**, **Redux**)
- Worked in an Agile environment and shipped major user-requested features with web performance improvements

Financial Engines - Software Engineering Intern, *Sunnyvale, CA* ***June 2017 - August 2017***

- Automated the conversion of the company-wide Postscript data archival system to use PDF and store in AWS after doing a cost analysis to demonstrate the significant benefits
- Worked with AWS Lambda, S3, Kinesis as well as Java, Angular, Javascript, SQL Server, Bash Scripting

Scry Analytics - Natural Language Processing Research Intern, *San Jose, CA* ***June 2015 - August 2015***

- Prototyped a NLP module for real-time lexical analysis of clients' customer service phone conversations
- Completed MVP that used the open-source Sphinx speech recognition library in Java

Projects

Stock Predictor **November *2018***

- Python notebook and library to predict future stock prices for instruments traded in any sector on NASDAQ
- Built feature extraction module for single stock time series using Quandl, Pandas, and Technical Analysis libraries. Ran regression models as well as random forest, HMM, and SVM models using Scikit-learn.
- One of the **top projects** in UC Berkeley's Advanced Probability and Random Processes (EECS 126) course

Traffic Control Improvement Research **March *2016***

- Built a model that was trained with local traffic metrics, clustered drivers with similar destinations and driving styles together using a k-means algorithm, and redirected each cluster along a unique route for more efficient vehicle traffic management
- Won **IBM Award for Computing** at 2016 Santa Clara Valley Science and Engineering Fair

Sensor Networks for Gun Control **March *2015***

- Modified a model gun to be automatically disabled in public areas, specifically schools
- Used Arduino Uno and Spark Core WiFi module to receive sigal from a modeled **sensor network** around a school to control the physical lock on a firearm to render it unusable in such a public area. This could also allow for selective control of who can use a purchased firearm.

Skills

Java	●●●●○	**Python**	●●●●○	**C/C++**	●●●○○
Git	●●●●○	**iOS Dev**	●●●○○	Swift	●●●○○
SQL	●●●○○	NumPy	●●●○○	Scikit-learn	●●○○○
Pandas	●●○○○	R + RStudio	●●○○○	AWS Dev	●●○○○