# Dhanvee Ivaturi

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## EDUCATION

**University of Maryland, College Park** **August 2018 - Decemeber 2021**
Bachelor of Science, Computer Science and Mathematics In-major GPA: 3.85
Machine Learning researcher @ FIRE Capital One

## TECHNICAL SKILLS

**Languages** Python, Java, Matlab, Linux Bash, LaTeX, JavaScript, HTML, CSS, Git
**Frameworks** Scikit-Learn, TensorFlow, Keras, Jupyter notebooks, Pandas, Selenium, BeautifulSoup
**Technologies** Deep Learning, Data mining, IOT, REST APIs, Cloud services, Microservices, Containerization

## WORK EXPERIENCE

**HuEx Inc** **June - November 2018**
`Data Analysis Intern` Palo Alto, CA

· Analyzed 10 GB of travel data to identify product-market fit and target markets with *Pandas*
· Scraped various websites with *Python*, *Selenium*, and *BeautifulSoup* for data that helped decide target market

**Silver Creek Academy** **April - August 2018**
`Office Assistant` San Jose, CA

· Revamped office's networking for improved security, reliability, and speed
· Designed a website for customers to view sample curriculum and a list of programs offered
· Assisted teachers in running summer camps and weekly classes

## PROJECTS

**Improving Breast Cancer Diagnosis through Machine Learning** **September 2017 - May 2018**
· Compared various ML algorithms (*KNN*, *SVM*, *Logistic Regression*, *Neural Nets*) on a 30 feature dataset describing the cells from a tumor biopsy (numerical values regarding size, texture, etc.)
· Tested principle component analysis to evaluate accuracy loss and improvement in training time
· Won Synopsys Silicon Valley science fair, competed in the Intel International Science Fair 2018 as a finalist

**Moody** **HackRU — March 2019**
· Implemented a deep CNN to predict a user's emotion with a picture of their face using GCP and TPUs
· Designed and integrated ML backend with web backend using *Flask*
· 1st place winner and best AI hack @ HackRU

**Open Sesame – Wi-Fi Garage Door Opener** **June 2018**
· Designed and assembled a system with a *Raspberry Pi* that would provide an online interface to the garage door
· Created an intuitive and clean interface for family members to open and close the garage door
· Implemented a logging system for both Wi-Fi and local opens and closes of the garage door

**Project Incendium** **SBHacks — December 2018**
· Implemented a neural network model to predict the size of a wildfire based on location, temperature, etc.
· Scraped historical weather data to look for correlations between weather patterns and wildfires

## EXTRACURRICULARS

**Organizer @ Bitcamp** **November 2018 - Present**
· Coordinated with networking and power vendors to provide services for the hackathon
· Determined travel reimbursement rules and implemented assignment scripts

**Volunteer @ Maryland Science Olympiad** **October - December 2018**
· Wrote tests for the Thermodynamics event in the regional tournament held at UMD