Shiv Ansal

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EDUCATION

University of Massachusetts , Amherst CICS   **Graduation:** May 2022
B.S. Computer Science, Minor: Mathematics

Monta Vista High School   **Graduation:** June 2018
Relevant Course Work: AP Computer Science, AP Physics Mechanics, AP Physics E/M, AP Biology

De Anza College   **Personal Enrichment**
Relevant Course Work: Multivariable Calculus, Introduction to Psychology

PROFESSIONAL EXPERIENCE

Unshackled Ventures   Summer 2017 – May 2018
Full-Stack Engineering Intern
- Received this opportunity through formal interview process; Worked with graduate students and industry professionals
- Initially built a full-stack website from scratch implementing libraries such as Django to work with SQL databases
- Currently working on using statistical/machine learning analysis to develop a better way for company employee search.
- Learning the concepts of graph theory, supervised/unsupervised learning, and more broadly understanding the basics of machine learning models.

Stanford Wall Lab: Autism Glass Project   Summer 2017
Research Intern
- Team Project Published on Nature Research Journal: "[Exploratory study examining the at-home feasibility of a wearable tool for social-affective learning in children with autism](#)"
- Worked on implementing multiple statistical and machine learning models to analyze autistic patient data. Worked in a python environment and familiarized myself with tools such as AWS and scikit-learn.
- Gained exposure to the mathematical theory behind the benefits of using different models in different situations

LEADERSHIP AND EXTRACURRICULAR EXPERIENCE

Design It   **Cupertino, CA**
President   Dec 2014 — June 2018
- Responsible for running a graphic design non-profit in the Bay Area for high schoolers interested in design
- Worked with multiple professional organizations to create marketing and branding content
- Held multiple design workshops for communities to utilize softwares such as Photoshop and LightRoom

Monta Vista DECA   **Cupertino, CA**
Officer and Competitor   Aug 2014 – Jun 2018
- Competed in 15+ professional competitions in subject areas from hospitality to entrepreneurship
- Have theorized over 5 business plans and marketing campaigns for existing companies in the market.
- Organized and planned multiple member events and helped run the marketing and operations within the club.

PROJECTS AND AWARDS

- **Peloton: Winner of CUHacks3 —** An application focused on increasing bicyclist safety by learning dangerous routings and crash prone areas.
- **LunchBox: API Winner at AngelHacks SV17 —** A food recommender application that uses artificial intelligence to discover one's eating tendencies
- **8-Class Emotion Recognition in Children —** Used machine learning to train models to interpret and analyze facial expression in order to recognize emotion patterns. Presented at Synopsys Science Fair 2017.
- **Developing a Multi-Layer Semantic Network to Enhance Employee Search —** Working on using different statistical approaches to find an optimized way to find employees that would fit the best.
- **International Top 10 —** Placed top 10 out of 150 competitors in an entrepreneurship competition at DECA's ICDC conference.

SKILLS AND INTERESTS

Programming Languages: *Proficient* - HTML, CSS, Javascript, JQuery, Java, Python | *Knowledgable* - React.js, Angular.js, C++, MySQL, Node.js
Framework/Technologies: Pandas, Numpy, Sklearn, Keras, Tensorflow, Matplotlib, Seaborn, OpenCV, SciPy, Flask, Django, Firebase, AWS, Linux