NEHA HUDAIT

nhudait@berkeley.edu | linkedin.com/in/nehahudait | www.nehahudait.com

Education

UC Berkeley - Management, Entrepreneurship, & Technology Program **Expected May 2022**

B.S. Electrical Engineering & Computer Science, B.S. Business Administration

Relevant Coursework:

- Machine Learning
- Artificial Intelligence
- Data Structures
- Advanced Algorithms
- Data Engineering and Design
- Machine Structures & Computer Architecture
- Principles and Techniques of Data Science
- Project Management for Data Science
- Entrepreneurial Leadership in a Technical World

Experience

Software Engineering Intern, NVIDIA **January 2021 - May 2021**

- Collaborating with the Product Security Team to design and develop Morpheus, a cloud-native cybersecurity framework which uses machine learning to identify, capture, and take action on threats and vulnerabilities such as phishing attaches
- Developing a centralized security log processing and inference full stack platform using Angular.js and Java Spring Boot
- Finalizing roadmaps for upcoming version releases and conducting user tests to prioritize feature developments

Technical Product Manager, UC Berkeley Divison of Data Science **December 2020 - May 2021**

- Leading end-to-end development of three major user-facing support and guidance features for Otter Grader, a lightweight, modular open-source autograder
- Designing and developing features for nbgitpuller, a Jupyter extension to distribute content in a git repository through a URL
- Working with Infrastructure and Adoption teams to scale Otter Grader to 20 UC Berkeley data science courses and 50 universities worldwide

Technical Product Management Intern, SAP Ariba **June 2020 - August 2020**

- Collaborated with the Platform Search Team to develop Search 3.0, a tool designed to streamline sourcing and procurement
- Implemented new Machine Learning and Data-Driven based features that analyze user intent and provide tailored results
- Created an automated algorithm and dashboard which updates live to reflect Key Performance Indicators as search data flows
- Developed Key Performance Indicators for Search 3.0 to integrate clickstream data features:
  - Coded features that determined the similarity of queries and closeness, in time, when consumers made queries
  - Discovered relationships between the time of day, query, and the number of users that were active at a given time

Machine Learning Developer, University of California, San Francisco Medical Center **January 2020 - May 2020**

- Improved AI-enabled detection and prevention techniques for cardiovascular disease to predict frames of ultra-sound videos
- Utilized Keras to explore the following frame-prediction approaches:
  - Implemented an LSTM (Long Short Term Memory) Model to predict one frame from the prior frame
  - Implemented a CNN (Convolutional Neural Net) which predicts a particular video frame from the thumbnail given

Projects

Deep Convolutional Generative Adversarial Network (DCGAN) for Breast Cancer Image Augmentation

- Improved Image Accuracy for Medical Classification of Breast Cancer Tumors through training a DCGAN
- Generated 10,204 synthetic images over 300 epochs and two classes to generate a 94% accuracy, a 15% increase

Skills

Languages: Python, Java, C, Javascript, HTML, CSS, SQL, Angular.js

Platform/Tools: TensorFlow, Pandas, Numpy, Keras, Photoshop, Illustrator, Indesign, XD, Apache Kafka/Spark, ArcGIS, Github

Extracurriculars

Advisor + Co-Founder, DataGood **May 2020 - Present**

- Co-founded and led an organization dedicated to exposing students to data science applications to social good sectors
- Designed and developed curriculum for educational workshops relating to NLP, machine learning, and geospatial analysis

External Vice President, Institute of Electrical and Electronics Engineers (IEEE) **August 2018 - May 2021**

- Organized and executed professional development events such as resume/interview workshops and research fairs
- Led diversity and inclusion efforts (EECS Women's History Month) through speaker series, workshops, and career fairs
- Developed course material for two student-run courses: Micromouse (introductory robotics) and Hands-On PCB Design