nveer Mitta

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Education

University of California: San Diego

La Jolla, CA

BACHELOR OF SCIENCE IN DATA SCIENCE, PROVOST HONORS, GPA: 3.6/4.0,

Sep. 2018 - May 2022

- Notable Coursework: Natural Language Processing, Deep Learning, Recommendation Systems, Machine Learning, Databases, Data Science
- Volunteered as data science student panelist to speak to incoming data science students and answer questions for Triton Day

Coursera

- Deep Learning Specialization: Deep Learning, Optimization, Structuring ML Projects, Convolutional Neural Networks, and Sequence Models
- Tensorflow in Practice Specialization: Intro to Tensorflow, Time Series Analysis, Natural Language Processing, and Computer Vision

Skills

Languages Python, Javascript, SQL, Java, Matlab

Frameworks Keras, Tensorflow, Pytorch, ReactJS, NodeJS, Docker, SpaCy, OpenCV, Spring

Cloud Services Amazon Web Services(AWS), AWS Sagemaker, AWS Lambda, AWS ECS, AWS EC2, DynamoDB, Kubernetes, Spark, Dask

Experience

Amazon, Project Santos

Seattle, WA

SOFTWARE DEVELOPMENT ENGINEERING INTERN June 2021 - Present

· Building a content moderation service with SageMaker, Lambda, and API Gateway to improve customer, merchant, and developer experiences · Collaborating to create a react app integrating my content moderation service and ECS services to facilitate customer-merchant interaction

American Express Phoenix, AZ

SOFTWARE ENGINEERING INTERN

July 2020 - Aug. 2020

- Orchestrated Kubernetes clusters to deploy containerized Couchbase, Mongodb, and Postgresql databases and a Jenkins CI/CD pipeline
- Engineered an internal tool to migrate data from MongoDB to Postgres; deployed my tool to Kubernetes to mitigate significant licensing costs La Jolla, CA

Cardiac Mechanics Research Group

Nov. 2019 - Present

- · Developed a full stack database application with React, Java, and SQL that stores and presents patients' clinical data and MRI images
- Updating legacy MATLAB code that mathematically transforms Cardiac Imaging meshes between coordinate systems by porting it to Python

Data Science Student Society @ UCSD

La Jolla, CA

DIRECTOR OF WORKSHOPS

May 2019 - Present

- · Collaborating with companies and other student organizations to organize machine learning workshops for the UCSD data science community
- · Planning and facilitating logistics for data-science focused educational, professional, and competitive events throughout the school year

The InfoPost

MACHINE LEARNING ENGINEER Feb. 2020 - May 2020 Quantified political bias in news articles using named entity recognition, sentiment analysis, and coreference resolution ML models

- Developed a Facebook Messenger chat bot to verify COVID-19 claims using deep learning models for textual entailment and a search engine

iDTech Camps

MACHINE LEARNING INSTRUCTOR June 2019 - Aug. 2019

- Taught deep learning, data science, and python programming classes to 50+ high school students using Keras, Tensorflow, and OpenAI Gym
- · Managed student behavior, administered safety procedures, and planned camp logistics

UC San Diego Health Department of Medicine

La Jolla, CA

March 2019 - June 2019

- · Migrated data from central data warehouse to department's personal SQL server by writing automated T-SQL procedures
- Developed and deployed internal tools for fuzzy logic matching, data processing, and financial dashboarding to assist business analysts

Projects _____

Notez.ai (Honorable Mention @ SDHacks 2021)

- Integrated topic modeling and ML models for question answering and text summarizing to generate study guides from Zoom transcripts
- · Collaborated to create a front-end dashboard to invokes our machine learning algorithm and present structured study guides to students

Time Series Modeling of AirBnB Prices in San Diego

- · Forecasted the average prices of AirBnB's in San Diego using SARIMAX and FB Prophet time series models
- Created an interface for users to input search criteria for an AirBnB and receive price predictions from the time series models

Textual Analysis of Chronic Illness Surveys (1st Place Entry @ UCSD DataHacks 2020)

- Applied T-Stochastic Neighbor Embeddings, GloVe, and TF-IDF to visualize survey questions in a 2d space using Tableau dashboards
- · Analyzed the effectiveness of Tobacco laws in the US for restricting underage tobacco sales by performing permutation testing

Sequence to Sequence Question Answering System

- Utilized the Stanford Question Answering Dataset and pretrained GloVe embeddings to train models capable of answering questions
- Created RNN, LSTM, bidirectional LSTM, and multi-headed self attention deep learning models using Pytorch for automatic differentiation