Tanveer Mittal

MACHINE LEARNING ENTHUSIAST & DATA SCIENCE STUDENT

☎ (630) 640-5246 | ✉ tamittal@ucsd.edu | ⌨ TanveerMittal | in Tanveer Mittal

Education

University of California: San Diego   *La Jolla, CA*
BACHELOR OF SCIENCE IN DATA SCIENCE, PROVOST HONORS, GPA: 3.5/4.0,   *Sep. 2018 - May 2022*
- **Coursework:** Natural Language Processing, Statistics, Algorithms, Data Structures, Multivariable Calculus, Linear Algebra
- Volunteered as data science student panelist to speak to incoming data science students and answer questions

Coursera
- **Deep Learning Specialization:** Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring ML Projects, Convolutional Neural Networks, and Sequence Models

Skills

Languages   Python, SQL, Java, Javascript, RegEx, HTML, CSS
Frameworks   Keras, Tensorflow, ReactJS, Pytorch, Pandas, OpenCV, Spring, Matplotlib, Seaborn

Experience

Cardiac Mechanics Research Group   *La Jolla, CA*
SOFTWARE ENGINEER   *Nov. 2019 - Present*
- Developing full stack with ReactJS, Java, and SQL for a database application that stores and presents clinical data and MRI images
- Performing programming and scripting tasks as requested by researchers and lab management

iDTech Camps   *Lisle, IL*
MACHINE LEARNING INSTRUCTOR   *June 2019 - Aug. 2019*
- Taught deep learning and python programming 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*
DATA PROGRAMMER   *March 2019 - June 2019*
- Migrated data from central data warehouse to department's personal SQL server by writing automated T-SQL procedures
- Performed scripting projects for fuzzy logic algorithms, data processing, and python/SQL integration

Swarm Robotix   *Naperville, IL*
SOFTWARE ENGINEERING INTERN   *May 2018 - July 2018*
- Developed and benchmarked computer vision and deep learning solutions for image segmentation
- Collaborated to created a custom motion planning interface to control and locate a swerve drive mechanism
- Headed documentation efforts for the drive train and computer vision teams

iManage   *Chicago, IL*
R&D INTERN   *June 2017 - Aug. 2017*
- Designed and implemented scalable test cases to troubleshoot database and file IO procedures carried out by iManage Drive
- Assisted in the process of porting iManage Drive's file system interactions for the Mac Operating System
- Supplemented natural language processing research and data preprocessing for the Labs teams

Extracurriculars

Data Science Student Society @ UCSD   *La Jolla, CA*
EVENT PLANNING COMMITTEE MEMBER   *May 2019 - PRESENT*
- Collaborating with companies and other student organizations to hold on-campus events for the UCSD data science community
- Planning and facilitating logistics for data-science focused social, professional, and networking events throughout the school year

Projects

Sequence to Sequence Question Answering System - NLP Final Project
- 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

Microsoft Pet Breed Classification Challenge
- Built and trained ensembled machine learning models to classify images of 40 distinct pet breeds in an 8 hour time limit
- Achieved approximately 90% test accuracy on Kaggle leaderboard and placed 4th at the 2019 UCSD Datathon

UCSD Clustering
- Wrangled and filtered a dataset of landmarks on UCSD campus using the Google Maps API
- Implemented an unsupervised k-means clustering algorithm to identify UCSD's 6 residential colleges