OMKAR RANADIVE

omkar.ranadive@u.northwestern.edu | linkedin.com/in/omkar-ranadive/ | https://omkar-ranadive.github.io/

EDUCATION

Northwestern University

Evanston. Illinois

Master of Science in Computer Science

Starting September 2019 Mumbai, India

K.J Somaiya College of Engineering

Bachelor of Technology in Computer Engineering, CGPA: 8.99/10

August 2015 - May 2019

• Relevant coursework: AI, Machine Learning (Topper), Neural Nets, Image Analysis (Topper), Fundamentals of Programming (10/10, AP), Data Structures, Algorithms, Computer Architecture (10/10), Operating Systems (Topper)

WORK EXPERIENCE

K.J Somaiya College of Engineering

Mumbai, India

Deep Learning Intern

January 2018 – April 2018

 Researched different methodologies of k-shot learning and developed a facial recognition system which can be trained on a small number of samples to perform fast and accurate recognition of faces.

Accelo Innovation Mumbai, India

Machine Learning Intern

August 2017 - October 2017

- Implemented object detection, depth mapping and lane detection modules.
- Integrated the modules along with a CNN model and created a usable API.

PAPERS

- Karan Joisher, Suhaib Khan, Omkar Ranadive. "Simulation Environment for Development and Testing of Autonomous Learning Agents". Presented at ICAST 2019, published in Elsevier-SSRN, April 2019.
- · Omkar Ranadive and Dhiti Thakkar. "k-Shot Learning for Face Recognition". International Journal of Computer Applications 181(18):43-48, September 2018.
- Karan Joisher, Omkar Ranadive, Suhaib Khan. "Framework for low cost driver-assistance system". Winner of IEEE Technical Paper Presentation, Abhiyantriki, 2017.

PROJECTS

- Simulation Environment for Development and Testing of Autonomous Learning Agents, Final Year Project: Built a virtual environment for autonomous driving agents with customizable parameters, simulated pedestrian and vehicular traffic and plug and play interface for supervised and reinforcement learning agents.
- Password Cracking and Strengthening Tool: Programmed a GUI based tool in Python for cracking passwords which can run different attacks and has adjustable parameters. It also suggests easy to remember strong passwords.
- Context Aware Searching: Created a program which predicts related keywords based on input query using N-Gram Model and a Neural Embedding Network.
- Credit Card Fraud Detector: Developed a credit card fraud detector which detects fraudulent transactions using Anomaly Detection.
- Poetry Writer Al: Developed a poetry writer which learns to write poetry using N-Gram Model.
- Movie Recommender and Scraper: Implemented a movie recommender system which forms the database by scraping information from the internet and recommends movies based on past user preferences.
- AI based Tic Tac Toe: Developed a GUI based Tic Tac Toe agent in Java based on mini-max algorithm.
- Mall Pro: Created an android application to get real-time listing of offers and latest deals of store outlets in malls.

SKILLS

- Programming Languages: Python, Java, C++, C.
- Libraries: Tensorflow, Scikit-Learn, Numpy, OpenCV, Pandas, NLTK, OpenAI-gym, Keras, TFlearn, Matplotlib.

CO-CURRICULARS

CSI KJSCE, Student's Chapter

Mumbai, India

Second Year Representative and First Year Representative

March 2016 - July 2017

- Created content, coding questions for coding competitions and technical workshops.
- Taught in workshops like Machine Learning and Cryptography and managed over 20+ events and seminars.

INDEPENDENT CERTIFICATIONS

- Machine Learning by Stanford University on Coursera, June 2017.
- Deep Learning Specialization by DeepLearning.Al on Coursera, February 2018.