KARTHIK PANSETTY

kpansett@andrew.cmu.edu ⋄ 5860 Hobart Street, Pittsburgh, PA-15217 ⋄ linkedin.com/in/karthikpansetty

OBJECTIVE

I am a Master's Student at Carnegie Mellon University in ECE. I am currently seeking Internship opportunities in Data Science and Software Development roles.

EDUCATION

Carnegie Mellon University, Pittsburgh, PA **Expected May 2022**
Master of Science in Electrical and Computer Engineering **GPA: 4.0/4.0**
Relevant Courses : Intro to Machine Learning for Engineers, Image and Video Processing,

Indian Institute of Technology(IIT) Gandhinagar, India **May 2019**
Bachelor of Technology in Electrical Engineering with minor in Computer Science **GPA: 8.35/10.0**
Relevant Courses: Pattern Recognition and Machine Learning, Mathematical Foundations for Computer Vision and Graphics, Natural Language Processing.

SKILLS AND INTERESTS

Skills	Python, JAVA, MATLAB, C, Verilog, Assembly.
Frameworks	TensorFlow, Keras, PyTorch, Pandas, NumPy, SciPy, Matplotlib, NLTK, OpenCV Scikit-learn, Networkx, Google Cloud Platform.
Interests	Software Engineering, Data Science, Machine Learning.

PROFESSIONAL EXPERIENCE

Machine Learning Engineer July 2019 - April 2020
HealthCloudAI *Bangalore, India*

- Developed sophisticated **Machine Learning models** from scratch to predict clinical diagnosis from unstructured clinical text in health records of patients using Tensorflow achieving 72.67% validation accuracy.
- Implemented a **recommendation system** to generate personalized questions based on the history and demographics of patients.
- Designed and implemented a pipeline consisting of acquiring the medical data, cleaning the data, training models, validating them and deploying them on the **Google Cloud Platform**.

RESEARCH EXPERIENCE

Research Intern (GIcST: A Natural Language Framework to Identify Themes Differentiating Cohort Subgroups) May 2018 - June 2019
University of Notre Dame *South Bend, IN*

- Developed a Generalized Identification of Cohort Specific Themes (GIcST) framework to systematically **extract themes differentiating texts** of two generalized population sub-groups while accounting for overall population-level experiences.
- This framework automates the process of discovery of psychological themes with respect to outcomes from unstructured psychological intervention texts to personalize interventions and gain insights surrounding patient conditions and outcomes.

Summer Research Intern (Graph Based Image Segmentation) May 2017 - July 2017
Indian Institute of Technology Gandhinagar *Gandhinagar, India*

- Implemented Binary Image Segmentation in MATLAB by using the graph representation of Simple Linear Iterative Clustering (SLIC) superpixels of an image.
- Analyzed different methods of **Spectral Clustering** and understood the graph representation of an image and compared this approach with the traditional K-means clustering.

SELECTED PROJECTS

Neural Machine Translation using Attention Mar 2018 - May 2018
Course : Pattern Recognition and Machine Learning, IIT Gandhinagar

- Implemented Neural Machine Translation using an LSTM model with Bahdanau attention in Python using Tensorflow to translate German to English utilizing the Europarl Parallel corpus.

ACADEMIC ACHIEVEMENTS

Dean's list awardee for outstanding academic performance, for 4 out of the 8 semesters while at IIT Gandhinagar.

Coursera Specializations: Deep Learning by deeplearning.ai, Applied Data Science with Python by University of Michigan, Introduction to Applied Cryptography by University of Colorado.