

Dheeraj Kumar Kondaparthi

dkonda2@uic.edu | www.github.com/dkondaparthi | www.linkedin.com/in/dkondaparthi

Education

UNIVERSITY OF ILLINOIS AT CHICAGO

Jan 2019 - Exp Dec 2020

Masters in Computer Science, GPA: 3.71/4.0

VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE, JNTU Hyderabad

Aug 2009 - May 2013

Bachelor of Technology in Electronics and Communication Engineering, GPA: 3.88/4.0

Skills

Area of Expertise: Machine Learning, Deep-Learning, Application Development.

Data Science Packages and Frameworks: Pandas, Scikit-learn, NLTK, TensorFlow, PyTorch, OpenCV

Languages: Python, C#, JavaScript, HTML, CSS

Databases: Microsoft SQL Server, MongoDB

Other Technologies: Microsoft SharePoint, PowerShell, Autonomy IDOL Search Engine, CI/CD Pipeline, GIT, AWS Cloud.

Academic Projects

Natural Language Processing

FOOL PROOF AUTOMATED ESSAY GRADING SYSTEM ROBUST TO WITHSTAND ADVERSARIAL ATTACKS (*Python, NLTK, TensorFlow*)

- Application that grades user essays with long term goal of matching system generated grades with human graders with near 100% accuracy.
- **Implemented** dual score CNN (Convolution Neural Network) based model to auto grade human essays.
- **Improved** robustness of model against different adversarial attacks thereby improving model accuracy against baseline model in market.

Computer Vision and Machine Learning

VALIDATING EFFICACY AND ROBUSTNESS OF MODELS USING NEURAL STRUCTURED LEARNING (*Python, TensorFlow*)

- **Created** baseline model and graph-based model using Neural Structured Learning by generalizing Neural Graph Machines and Adversarial Learning.
- **Validated** accuracy and robustness of models on IMDB, Citations, MNIST, Fashion MNIST, CIFAR10 datasets.

Data Science

PREDICTION OF REAL ESTATE PRICES BASED ON CHICAGO CRIME DATA (*Python, Pandas, Scikit-learn, Flask*)

- Web application that visualizes and recommends houses to users based on Chicago crime and real estate data across all neighborhoods.
- **Performed** exploratory data analysis to explore correlation levels between Chicago crime and real estate data across different neighborhoods.
- **Created** Machine Learning regression model based on Decision Tree to predict housing prices by factoring crime data and real estate data.

Work Experience

College of Business Administration (CBA), UIC

GRADUATE ASSISTANT

May 2019 - present

- **Leading** CBA SharePoint instance migration from on-premise to SharePoint Online based out of Microsoft Office 365 Cloud.

Natural Language Processing Lab, UIC

SUMMER RESEARCHER

June 2020 – Aug 2020

- **Worked** with Dr. Natalie Parde at NLP Lab on a research project to model trustworthiness of news articles and social media posts of all pandemics from past 100 years.
- **Involved** in new articles annotation, inter annotation meetings and building pandemic trustworthy classifier model.

DXC Technology India Private Limited

APPLICATION DEVELOPER

Sep 2013 - Nov 2018

- **Led** a team of 5 talented and smart colleagues for 18 months while managing client deliverables.
- **Designed** and **Implemented** custom search functionality on external web applications using Autonomy IDOL Search Engine for effective information retrieval.
- **Deployed** information governance solution across organization to be compliant with EU GDPR regulation using SharePoint 2016 and AvePoint.
- **Created** personalized news results feature using for intranet portal using SharePoint for effective information dissemination.

Indian Institute of Technology, Bombay

SUMMER INTERN, AFFORDABLE SOLUTIONS LAB

May 2012 - July 2012

- **Rewritten** communication protocols for classroom engagement application(clicker) resulting in 75% reduction of packet loss.