

# Harsha Hemanth Chunduri

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## SKILLS

Languages: Python, R, Scala

Frameworks: Spark, Git, Flask, Tensorflow, Keras, OpenCV, Tableau, Sci-kit Learn

Machine Learning: NLP, Regression, Classification, Clustering, Statistics, Computer Vision, CNN, FCN

Cloud: Linode, AWS EC2, S3, EMR, Route 53, VPC, Security Groups, Load Balancing

OS, Security and Tools: CI/CD, Ubuntu, Elastic, Docker, Rundeck, PostgreSQL, SAP Analytics Cloud, Kibana, Azure ML Studio

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## EDUCATION

### ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO

EXPECTED: Aug 2022

**Masters in Data Science** (Teaching Assistant: Introduction to Algorithms)

### INSTITUTE OF AERONAUTICAL ENGINEERING (JNTUH)

2014 - 2018

**Bachelor of Technology in Electronics and Communication Engineering**

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## EXPERIENCE

*Business Systems Analyst Intern*

2022 - 2022

**Motorola Solutions Inc.**

Chicago

- Developed recommendation engine to increase user engagement with chat bot saving 0.5 hrs support time per request
- Implemented A/B test for new user features for a sample of 2K users within the organization to increase response
- Engineered a user based collaborative filter recommendation system and a time bound notification engine

*Teaching Assistant, Student Assistant, Idea Shop Web Developer*

2021 - 2022

**Illinois Institute of Technology**

Chicago

- Developed backend functionalities for an online training website with the capability of training 8K students

*Junior Data Scientist*

2019 - 2020

**3LOQ Labs (Fintech Start-up)**

Hyderabad

- Analyzed and built machine learning applications to predict customer churn and incomes for 1.2 million customers
- Built data pipelines for masking 1.2 TB batch user data and preprocessing financial transactions for the ML model
- Built a recommendation engine to recommend features based on past transactions, increasing transactions by 4.3%
- Evaluating model performance and feature engineering for improving model for multiple demographic datasets
- Led team of 4 in Security, DevOps and automation projects for offline and cloud clusters of 1 TB RAM
- Initiated micro service deployments for distributed ML applications using Docker saving production costs by 60%

*Associate Business Analyst*

2018 - 2019

**Bitkemy Technologies**

Hyderabad

- Extracted & delivered insights and migrated code to python from SAS modules with an accuracy of 94.6%

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## PROJECTS

### Image Segmentation with Fully Convolutional Networks (Skills: Python, Keras, Tensorflow, Cython, Colab)

- Built an FCN from scratch which will segment the image pixel to pixel on GPU with an accuracy of 89.2% on cloud

### COVID Cases Forecasting (Skills: Python, Facebook's Prophet Forecast model, Timeseries)

- Trained a forecasting model for predicting the cases combined with social-economic & weather data with MAE 2k

### Big Data Research (Skills: Spark, Keras, Deequ, MLlib)

- Evaluated multiple ML frameworks & compared for different use cases along with the impact of data quality using Deequ

### Text Categorization on COVID news comments (Skills: NLP, Python, Bag-of-words, Random Forest, Naives Bayes)

- Built model for classifying tokens of text to multiple categories with accuracy of 94.6% resulting in less manual overhead

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## LEADERSHIP EXPERIENCE

### Team Lead ThinkChicago

- Led a group of 5 university-level PhD scholars in delivering solutions for vertical farming & food waste management
- Proposed solutions for economic retention in Chicago region post pandemic in food and agricultural sectors

### Kaplan Institute Member for Start-ups

- Partnered and collaborated with students in helping build tech based start-ups and advising on data science projects