

Keshav Malpani

DATA ENGINEER · DATA SCIENTIST · SOFTWARE DEVELOPER

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Education

University of Illinois at Chicago

MASTER OF SCIENCE IN COMPUTER SCIENCE

- GPA: 3.86/4 | Courses Taken: Data Mining, Machine Learning, Neural Networks, Applied AI, Data Science, DBMS

Chicago, Illinois

Expected - May 2018

Osmania University

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

- GPA: 3.5/4 | Courses Taken: Information Retrieval, Design and Analysis of Algorithms, Distributed Systems

Hyderabad, India

Completed - May 2016

Technical Skills and Certifications

Languages: Python, R, Java, CSS, JavaScript, MATLAB, Shell Scripting

Version Control: Git

Databases: MySQL, PostgreSQL, SQL Server, MongoDB

Certifications: Microsoft Technology Associate (MTA): Cloud Fundamentals

Data Science Packages: Pandas, Scikit-learn, Numpy, NLTK, Keras, TensorFlow, Matplotlib, Tableau, Netica

Amazon Web Services: EC2, S3, Lambda, CloudWatch, RDS, Athena, Redshift

Experience

Data Engineering Intern

GOBBLE

- Developed a forecasting application which predicts the number of customers and the quantity of orders
- Deployed predictive models to predict churn using different Machine Learning algorithms
- Performed statistical data analysis and sentiment analysis for customer ratings based on a 5-point Likert Scale
- Tech Stack: Python, MySQL, PostgreSQL and Shell Scripting (Bash)
- AWS Stack: EC2, S3, Lambda, CloudWatch, RDS, Athena, and Redshift

Palo Alto, California

May 2017 - August 2017

Graduate Assistant

UNIVERSITY OF ILLINOIS AT CHICAGO

- Maintain and support the CBA's infrastructure to provide students and faculty access to critical information
- Responsible for hosting and publishing websites using Cent OS and working with CMS like Drupal and WordPress
- Developing applications as per the needs and requirements of the Professors
- Maintained users complete accounts, controls access, and account securities on Active Directory

Chicago, Illinois

Nov 2016 - Present

Web Development Intern

DRIVER CULT

- Designed and published the company's website which increased web traffic, improved user experience and engagement
- Created a web app that enables content writers to add blog posts with efficiency. Tech Stack: HTML, CSS, JavaScript
- Tech Stack: HTML, CSS, JavaScript, and MySQL

Hyderabad, India

Dec 2014 - Mar 2015

Data Analyst Intern

INFOTRACK SYSTEMS

- Automation of data extraction to improve efficiency to prepare quantitative data files ready for analysis
- Designed data warehouse architecture to store the data in a more efficient manner. Tech Stack: Python and MySQL

Hyderabad, India

June 2014 - Nov 2014

Projects

Realtime City Scale Taxi Ridesharing

DBMS COURSE PROJECT, UIC

- Devised a ride-sharing max-matching algorithm that enables real time taxi ride-sharing on spacio-temporal data
- The data used represented nearly 700 million trips in New York City during the years of 2011-2016
- Considers a social score of partners (like what dating apps use) before merging the trip requests

Python, ORSM, MySQL

February 2018

Two Sigma Connect: Rental Listing Inquiries

APPLIED AI LAB, UIC

- Used Ada Boost, Random Forest from Python's Scikit-learn to predict the interest level for the rental listings
- Performed feature engineering and did classification based on Numerical Features, Text Features and Ensemble
- Implemented Geo-spatial analysis for all the rental listings and showed how preference changed based on location

Python, Scikit-learn, Matplotlib

October 2017

Twitter Sentiment Analysis

DATA MINING LAB, UIC

- Designed and engineered different learning techniques for classifying sentiments for a Twitter dataset
- Built various multi-class text classifiers that delivered promising F-scores and very high precision-recall metrics

Python, NLTK, Scikit-learn

March 2017

Football Player Evaluation Engine

ARTIFICIAL INTELLIGENCE LABORATORY, UIC

- Created a automated system to evaluate football players and provided recommendations if the player is good
- Used Jess API for Eclipse for developing the automated system and used Netica to implement Bayesian Networks

Java, JESS, Netica

Feb 2017

Gesture Segmentation using Skeleton Tracking and Machine Learning

ELECTRONIC VISUALIZATION LABORATORY (EVL), UIC

- Wrote algorithms to identify "moving window" gestures generated from XBOX Kinect
- Implemented techniques like Decision Trees, SVM's and Multi-layer Perceptron to determine the testing accuracy

Python, Lua, MATLAB

Nov 2016