

# RAVALI MAMIDI

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## ACADEMIC QUALIFICATIONS

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### Wright State University

Master of Science, Computer Science, (Emphasis: Data Science)

*December 2017*

GPA: 3.4

### Gokaraju Rangaraju Institute of Engineering and Technology

Bachelor of Technology, Information Technology

*April 2014*

GPA: 3.7

## EXPERIENCE

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### Software Engineer Intern, Zebo Technologies Inc

September 2017 - December 2017

- Worked on Artificial Intelligence chatbot platform using Python and various front-end languages. Developed a subscription module, Parsing module for ecommerce CMS platform. Integrated Google Analytics into the platform.

Technologies: Python, Amazon Web Services.

<http://ravali-mamidi.info/wp-content/uploads/2018/01/Ravali-reference-letter.pdf>

### Graduate Research Assistant, Kno.e.sis Research Institute

January 2017 - December 2017

- The main goal of the project was to analyze the Sentiment of Public on Zika Outbreaks. Twitter was the source of information. Built a two staged classifier for identifying the relevant tweets and sentiments categories. Techniques like word embeddings and N-grams are used for learning the features. Different types of classifiers are used for classifying the tweets.
- Topic models are built on top of the tweets categorized by the Classifier using Latent Dirichlet allocation.

Technologies: Python, R, ML Algorithms, LDA, Weka, NLP.

Research results: <http://ravali-mamidi.info/sentiment-topics>

### Software Developer, Wright State University

May 2016 - December 2016

- Automated the process of creating the knowledge portals on single click.
- Analysing the sentiment of the portal using twitter widget embedded in the portal.

Technologies: PHP, HTML5, CSS, Javascript.

### Systems Engineer, Tata Consultancy Services

June 2014 - December 2015

- Developed a vigilance based system using Java used to detect thefts and bill the consumers against the theft.
- Integrated the Java based system with Oracle Utility CCB using web services.

Technologies: Java, Web Services, Oracle CCnB, HTML.

## TECHNICAL SKILLSET

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### Programming Languages

Python, Java, PHP, R

### Machine Learning Algorithms

Word2vec, Regression, Classification, Clustering

### Machine Learning Libraries

Scikit Learn, Numpy, Pandas, Tensorflow, Keras, Gensim

### Big Data

Amazon Web Services, Hadoop, Apache Spark MLlib

### Data Visualization

Seaborn, matplotlib

### Web Technologies

HTML5, CSS3, javascript, soap XML, JSON

### Databases

MySql, mango DB, postgresQL

### Tools

Pycharm, Ipython Notebook, Eclipse, Anaconda, Weka, Git

## PROJECTS

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### **Prediction of risk value of Cryptocurrencies** (Python, Risk Analysis, Data Visualization)

- Data is extracted from the yahoo finance site for the top four cryptocurrencies in the market.
- Data is analyzed to find the change in prices of currencies over time, correlation between currencies and predicting the risk value for each currency based on Quantile and Monte Carlo simulations.

### **California House Price Prediction** (Tensorflow Estimator API)

- Built a Linear and Dense Neural Net using the Estimator API of Tensorflow for predicting the house price.

### **Implementation of Logistic and Linear Regression** (Python, ML Algorithms, Data Analysis)

- Implemented the Logistic and Linear regression algorithms from the scratch using Python.
- Data Analysis and evaluation of the algorithms was done using the UCI datasets.

### **Prediction of Diabetes** (Python, TensorFlow, Keras)

- Built a Neural network using Keras API with Tensorflow as backend and predict if a person has diabetes based on certain diagnostic measurements.

### **Implementation of K-means algorithm on Hadoop** (Hadoop, Java, Spark)

- Developed a MapReduce version of Kmeans Algorithm on a single-node Hadoop system. Used Pig and Spark for analyzing the relational data.

### **Dashboard for Beddit sleep tracker** (Beddit cloud, Node.js)

- Developed a dashboard for the Beddit sleep tracker which retrieves data from beddit cloud and shows the user sleep habits and the overall sleep data graphically.

### **Application for Data Mining techniques** (Data Mining, Java)

- Developed a Java application to perform frequent pattern mining, regression, clustering and outlier detection on a banking dataset.

## CERTIFICATIONS

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- Graduate-Level Certificate in Big and Smart Data at Wright State University.
- Certification of Completion of Learning Python for Data Analysis and Visualization at Udemy.
- Certificate recognized by the Oracle Certification Program as an Oracle PL/SQL Developer Certified Associate.

## REFERENCES

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| • Dr Tanvi Banerjee, Ph.D<br>Assistant Professor<br>Joshi Research Center<br>tanvi.banerjee@wright.edu | • Nehel Khanani, CEO<br>Zebo Technologies Inc<br>Palo Alto, CA<br>nehel@zebo.io |
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