THIRUMAL REDDY KONATHAM

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**EDUCATION**

**Master’s in Computer Science Dec 2020**

University of Cincinnati, Cincinnati. Ohio GPA: 3.83/4.0

**Bachelor of Technology, Computer Science** **May 2019**

G.R.I.E.T, JNTU, India GPA: 9.15/10.00

**RELEVANT WORK EXPERIENCE**

**KPMG DATA SCIENCE INTERN, (Insidesherpa)**  Mar – Apr 2020

* Client is SPROCKET CENTRAL (cycle company) and suggested them a model which intended to target the customers.
* Quality assessment on the client’s data and made recommendations to mitigate the issues.
* Build a recommendation model by performing the Data Exploration, Model development, Interpretation.
* Increased the production to 800 customers from 650 out of 1000 by K- nearest neighbor classification.

**TATA CONSULTANCY SERVICES, DATA SCIENCE INTERN**  Jan - Apr 2019

* Worked as an intern at TCS digital on Data and Analytics Team.
* Collected the data from the client(housing) API and made RESTful API calls to retrieve data required for project.
* Developed a report based on results and findings using Folium library to greet maps and geospatial data.

**PROJECTS**

***Disease detection, University of Cincinnati (Research project)***

* Preprocessing data and images properly for train, validation and test sets and set up a pre-trained neural network to make disease prediction on chest X-rays
* Image segmentation on 3D MRI data, input standardization and applied U- Net model and implemented loss function for model training.
* Evaluated model performance basis on sensitivity, specificity, ROC curve.
* Modules: NumPy, Pandas, scikit-learn, keras, Matplotlib, Seaborn, neural network models.

***STOCK PREDICTION, data science*** Feb - Mar 2018

* Developed the stock prediction software by using the huge data and machine learning algorithms.
* Using the SQL to extract the data, developed the Random Forest classification model, achieved accuracy 0.94.

***ANALYZING ATTENDANCE, Data science and Cloud*** Jan - Apr 2017

* Developed a system that takes a picture of class from camera consisting students.
* Trains the model and then verifies the students from the cloud database. AWS, Python, CNN, Keras.

**TECHINCAL EXPERTISE**

* Programming Languages: Python, C, java, TensorFlow, PyTorch, R, SQL, JavaScript, HTML, MySQL, UNIX
* Technologies: Apache Hadoop, MapReduce, Hive, Spark, Flask, AWS (Lambda, API Gateway, EC2, S3), Django
* Software Tools: Tableau, Visual Studio, IBM Watson studio, PyCharm, Jupyter Notebooks, GitHub, Docker, Kubernetes

**CERTIFICATIONS**

* Apr 2020 Microsoft Azure Fundamentals (AZ-900) Azure Fundamentals(Microsoft)
* Jan 2020 AWS Developer - Building on AWS, Edx AWS services, app deployment
* May 2019 Python Specialization, Uni of Michigan Python, scrapping the data (WEB)
* Jan 2019 Data Structures Specialization, Coursera (SDSU) (Py)Time and space complexity
* Jun 2019 Data Science using SQL, UCDavis, Coursera ER models, Joins, Keys, profiling
* Jul 2017 Oracle Certification, Database Programming SQL programming techniques

**ACHIEVEMENTS AND Extra-curricular**

* Ranked in the top 1 percentile in the Algorithms domain at the Hacker Rank coding platform.
* Competed and ranked in top 10 in Hyderabad coding test by JNTUH.
* Worked as a lab assistant for the computer science department for almost 15 months.
* Contributed to Tata Consulting Group’s campus recruiting efforts at GRIET.
* Worked as a tutor in Mathematics, Physics and Chemistry for about two years.
* Active Badminton player in the college team, Captain in college team.