

AMIT HULANDAGERI

SUMMARY OF QUALIFICATIONS

- A Graduate student, working on a Thesis to embed personalization into Conversational AI systems through Generative approach.
- Knowledgeable business professional with over three years of experience in data analysis in Renewable Energy industry.
- A team player with detail-oriented, excellent analytical, communication and organizational skills as evident through work and academic experiences.

EXPERIENCE

Thesis

05/2019 to Present

University of Colorado, Denver

- Personalization of Conversational AI systems using Deep Learning Methods.
- A neural conversation model using Meta-Learning to adopt custom personas.
- Building a Twitter persona-conversational dataset with the help of Twitter API and GCP for ETL process.
- Age and Gender prediction; User's interest prediction.

Research Assistant

04/2019 to Present

University of Colorado, Denver

- Working as part of a research team testing various models, including the QUBO model, for combinatorial optimization.
- Working on a Machine Learning optimization algorithm which deals with cases where number of features >> number of data points, with >85% accuracy.

Data Analyst

05/2015 to 06/2018

Mission Biofuels India Pvt Ltd, Bengaluru

- Worked as a part of 6 people data analytics team leading to a profit of 2% (\$10000) per annum.
- Applied Time-Series Forecasting models (ARMA, ARIMA and ARIMAX) for short-term and medium-term electricity generation prediction.
- Prediction of premature failures using classification models (Neural networks, support vector machines and decision trees).

PROJECTS

Myers-Briggs Chatbot

- An NLP model which takes one of the Myers-Briggs personalities, using LSTM.
- Web-scraped data using BeautifulSoup and built pre-processing ETL pipelines.
- Built a web application using Flask, HTML, JavaScript, JQuery and CSS.

Age Prediction from facial images: A linear regression model, using Principal Component Analysis for dimensional reduction, to predict the age.

Image Search Tool: An application of Locality Sensitive Hashing and Nearest Neighbor with help of PySpark.

Data Streams Analyzing Tool: Approximating the frequency of occurrences of items in a data stream to optimize memory.

Credit Card Fraud Detection Application: Uses an Ensemble classifier model (Logistic Regression, Naïve Bayes, kNN) on unbalanced data.

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- <https://github.com/amit-hm>

SKILLS

- **Programming:** Python, C, C++, SQL, R, MATLAB.
- **Deep Learning Frameworks:** TensorFlow, Keras, PyTorch.
- **Google Cloud Platform:** BigQuery, Compute Engine, Bigtable, Storage, SQL, Spanner, Dataproc, Dataflow, Pub/Sub, Composer.
- **Big Data:** Spark, Hadoop.
- **ML Python Libraries:** Numpy, SciPy, LightGBM, Eli5, Pandas, Scikit-Learn, BeautifulSoup, Matplotlib.
- **Data Visualization:** Google Data Studio, Plotly, Tableau, Looker, Matplotlib, Seaplot.

EDUCATION

Master of Science, Computer Science, Data Science Major,

Expected in 12/2020

University of Colorado, Denver

- GPA: 3.92/4.0

Bachelor of Engineering, Mechanical Engineering,

06/2014

Ramaiah Institute of Technology

- GPA: 8.91/10

RELATED COURSES

- Object-Oriented Programming
- Algorithms
- Data structures
- Computer Architecture
- Operating Systems
- Machine Learning
- Big Data Mining