

SWETHA SRIKARI MAGANTI

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I hold a Master's degree in Machine Learning and I'm looking for Data Scientist / ML Engineer roles to utilize my skills and create an impact. I worked on collaborative and independent projects covering various domains including health care, climate, social media and language models leveraging Python and open-source ML tools.

SKILLS

- Course work: Machine learning | Artificial Intelligence | Data Science | Data analysis | Representation learning | Statistical modeling | Natural Language Processing | Computer Vision | Data Structures and Algorithms | Probability and Statistics
- Data sets: Structured | Unstructured
- Programming Languages: Python | Matlab | R | LaTeX | HTML
- Database: MySQL | SQLite
- Machine learning / Deep learning libraries: Pandas | Numpy | Scikit-learn | NLTK | Tensorflow | Pytorch | SpaCy | Scikit-survival
- Data Visualization: Tableau | Matplotlib | Plotly | Seaborn | Shap
- Other: Git | Linux | Jupyter notebook

WORK EXPERIENCE

Machine learning Intern | [Perceiv AI](#), Montreal | 01/2021 – 07/2021

- Worked with clinical data extracted using ICD 9 and ICD 10 codes.
- Performed data manipulation, feature engineering and prepared data pipelines for training
- Applied resampling techniques to tackle the problem of class imbalance
- Explored ensemble models and a variety of machine learning models
- Built Framingham and European SCORE risk models for a 10-year risk assessment of cardiovascular disease.

(Python, Pandas, Numpy, Scikit-learn, Git, Linux, Jupyter notebook, Scikit-survival, Matplotlib, Plotly, Shap, Docker)

EDUCATION

M.Sc, Computer Science | [Mila, University of Montreal](#), Montreal | 09/2019 - 11/2021

B.E, Electronics and Instrumentation | [Madras Institute of Technology](#), [Anna University](#), Chennai | 08/2015 - 05/2019

CERTIFICATION

[Tableau 2022 A-Z: Hands-On Tableau Training for Data Science](#) | 2022

[SQL for Data Science](#) | 2022

[R Programming, Data Science specialization](#) | 2022

Regression models, Data Science specialization | 2022

Statistical Inference, Data Science specialization | 2022

PROJECTS

[Image generation using diffusion model](#)

Images are generated from complete noise using a diffusion (generative) model. The forward diffusion process involves gradually corrupting the original images with noise at each timestep. The images are

then recovered by training a model to predict the noise added at each timestep in the reverse diffusion process.

(Python, Pytorch, Diffusion model, Matplotlib, Git, Jupyter notebook, Linux)

Low Resource Machine Translation

To overcome the lack of a large aligned dataset, source-side monolingual data was exploited using a self-learning technique similar to back translation, which strengthens the encoder and boosts the performance of the transformer by generating synthetic data.

(Python, Tensorflow, Numpy, Pandas, Scikit-learn, Git, NLTK, Jupyter notebook, Linux)

Solar Irradiance Prediction

Implemented a 3-D convolutional neural network to nowcast the solar irradiance from GOES satellite imagery.

(Python, Tensorflow, Numpy, Pandas, Scikit-learn, Git, Jupyter notebook, Linux)

User Profiling in Social Media

Trained a model to construct a user profile i.e., infer age, demographics, and Big 5 personalities by leveraging textual, visual, and relational cues from social media.

(Python, Pandas, Numpy, Scikit-learn, Jupyter notebook, Linux)

Multi-class text classification

Performed comparative analysis of various language models, hyper-parameter configurations, and training regimes to boost the accuracy of classification.

(Python, Pandas, Numpy, Scikit-learn, NLTK, SpaCy, Matplotlib, Git, Linux, Jupyter notebook)

OTHER ACTIVITIES

- Adopted a tree - [Cambridge Urban Forest Friends](#)
- Volunteered at [Computer Society of Madras Institute of Technology](#)
- [National Service Scheme](#) volunteer, Anna University