



Harshavardhan Subramanian

Machine Learning Engineer | Data Scientist | Data Analyst

Profile

A learner with 3 years of profound experience as an ETL Developer possessing a persistent urge to seek inspiration in all forms of work and believe that with consistent motivation can be and make a difference in the line of work and society

Employment History

ETL Developer | Programmer Analyst at Cognizant Technology Solutions Pvt Ltd., Bengaluru

January 2017 — May 2019

- Developed and maintained ETL (Data Extraction, Transformation and Loading) mappings using Informatica Designer (9.1.6 and 10.1.0) to extract the data from multiple source systems that comprise databases like Oracle 10g, SQL Server 7.2 which involved interaction with third-party vendors and identified different external and internal homogenous and heterogeneous sources.
- Co-ordinated monthly roadmap releases to push enhanced/new informatica code to production.
- Automated the process of FTPing the files to different vendors through Unix Shell scripting and also for formatting the source file as per client's requirement.
- Wrote various technical design documents, including Business Requirements, Functional and Technical Specifications, Data Flow and Process diagrams using MS Excel, Word and Powerpoint tools.

Education

Bachelors in Industrial Engineering and Management, Visvesvaraya Technological University, Bengaluru

September 2012 — June 2016

Masters in Statistics and Machine Learning, Linköping University, Linköping

August 2019 — Present

Relevant Courses

- Deep Learning
- Advanced Machine Learning
- Time Series and Sequence Learning
- Bayesian Learning
- Advanced Data Mining
- Big Data Analytics
- Univariate/Multivariate/Computational Statistics
- Text Mining

Details

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shvardhan1994@gmail.com

Date of birth

13-11-1994

Nationality

Indian

Links

[LinkedIn](#)

[Github](#)

Skills

Python / Numpy / Pandas / R

TensorFlow / Trax

MySQL / Informatica / Apache Spark

Linear Regression / Ridge Regression / Logistic Regression / Generalized Additive Models / Random Forest / AdaBoost / SVM / Kernel Smoothers

Bayesian Analysis / MCMC Simulation / PCA

Time Series Analysis / Kalman Filtering / Particle Filtering / AR / ARIMA Modelling

Data Mining / Apriori / FP Growth Algorithm

AI / ML / NLP / Sequence Learning / Text Mining

Reinforcement Learning / Q Learning

📁 Personal Projects

Implementing probing classifiers for NLP Tasks by pruning input parameters of hidden representations of popular models such as BERT, XLNet or GPT-2.

September 2020 — Present

Languages

English

Kannada

📁 Extra Assignments / Projects

Building AutoRegressive models for a data set corresponding to the Global Mean Sea Level (GMSL) over the past few decade

Analyzing GMSL Data using a Structural Time Series model by implementing a Kalman filter to infer the latent states of the model, as well as doing long-term prediction along with implementation of a Disturbance Smoother and Expectation maximization algorithm to tune the parameters of the model.

Building a Non-linear State Space model for analyzing the dynamics of SARS-CoV-2, the virus causing covid-19 using an Epidemiological model referred to as a Susceptible-Exposed-Infectious-Recovered (SEIR) model.

Forecasting Hourly Temperature prediction for a date and place in Sweden using Kernel Methods(Gaussian Kernel) and PySpark.

Implementing Q Learning and REINFORCE algorithm on an agent who acts by moving up, down, left or right in a 2D grid-world and pruning the Hyper parameters to obtain Optimal policy for the agent.

Autonomous driving object detection on a car detection dataset using YOLO algorithm.

Credit scoring classification using Decision Trees and Naïve Bayes.

Building a Face Recognition system using a pretrained model to map face images to 128 dimensional encoding and Triplet loss function.

Implementing Neural style Transfer algorithm to generate novel artistic images.

📖 References

Srikantha Adiga from Cognizant Technology Solutions Pvt Ltd.

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Srirama R Nakshatri from Infrd

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