

# Shanmugaraja Krishnasamy Venugopal

Data Scientist

A self-motivated and seasoned data scientist, with 3+ years of experience in building data-intensive application, overcoming complex architectural and technical problems.

shanrajavenugopal@gmail.com ✉

+1 819 576 6366 📞

Ottawa, Canada 📍

linkedin.com/in/shanmugaraja-krishnasamy-venugopal in

github.com/shan-1911 🐙

## WORK EXPERIENCE

### Ceridian Data Scientist

04/2019 - Present Ottawa, Canada

Ceridian is a leading global human capital management (HCM) software company with a strong mission to make peoples work like better.

*Achievements/Tasks*

- Designed and implemented a novel data De-Identification process for the data team which reduces the risk of re-identification attacks by an average of 15%.
- Designed ,developed and deployed a production-ready sales forecasting model for the WFM module. An average of 10% drop in NRMSE was achieved.
- Worked with Dayforce assistant and search team to provide insights into the user behavior using NLP techniques.
- Incorporated intelligent search into the existing CRM module for the Dayforce support team.
- Worked closely with the architect to develop and deploy and end to end MLOps pipeline for the Dayforce Data Services team.

## CERTIFICATES

Microsoft certified Azure AI Engineer  
(02/2021 - 02/2023)

*Microsoft Azure certification*

Microsoft certified Azure data scientist  
(06/2020 - Present)

*Microsoft Azure certification*

Microsoft certified Azure Data Engineer  
(11/2021 - 11/2023)

*Microsoft Azure certification*

Tensorflow developer (05/2020 - Present)

*Udemy course*

Deeplearning Nanodegree (04/2018 - 10/2018)

*Udacity*

Microsoft Azure AI Fundamentals (02/2021 - 02/2023)

*Microsoft Azure certification*

## EDUCATION

### M.Asc Electrical and Computer Engineering Carleton University

01/2018 - 01/2019

11.80

*Courses*

- Pattern classification.
- Data Science and Machine learning.
- Neural networks and Fuzzy logic.
- Thesis: Automatic detection of carotid artery using A-Mode ultrasound.

## GENERAL SKILLS

Machine learning

Data structures and Algorithms

Statistical Analysis

Deep learning

Data visualization

Agile methodologies

Bash scripting

Git and version control

## TECHNICAL SKILLS

### Programming language & libraires

Python, C++,Pyspark, Tensorflow , Numpy, Pandas, Matplotlib, Seaborn, Keras, SQL

### Data Engineering

Databricks, Azure data factory , Azure Synapse , SQL studio management server

### Machine learning

Azure machine learning, Azure cognitive services, Azure devops, Google Tensorboard, Google Colab, Visual Studio, Pycharm

### Data Visualisation

PowerBI

## AWARDS & PUBLICATIONS

Awarded NSERC Research Assistantship  
(07/2018 - 01/2020)

Continuous artery wall motion tracking using ultrasonic sensor by signal decomposition and Machine learning  
(09/2021 - Present)

*IEEE International conference on Flexible, Printable Sensors and Systems (2021)*

## PROJECTS

Improving Speech to Text Engines (02/2021 - Present)

- Using RNN to find the optimal weights to combine different STT services and improve their accuracy.

Automatic Tinder swiper (06/2021 - 10/2021)

- A Deep learning model was trained using the transfer learning technique to automatically swipe left or right based on the user's general preference.

Walmart Sales Prediction (06/2020 - 08/2020)

- A Kaggle competition, where we were able to predict the weather sale forecast with 95% accuracy.

Face Generation (02/2020 - 04/2020)

- Using Generative Adversarial Networks to generate Celebrity faces from a public dataset.

Automatic Script Generator (05/2018 - 06/2018)

- An LSTM was used to generate dialogue of a TV series.