SANTOSH KANNAN

Gainesville, Fl 32608 | 3522140862 | santosh.kannan@ufl.edu | Github | LinkedIn

SUMMARY

Software Engineer experienced in designing and building scalable software products on the Big data platform, leading and overseeing associates, and handling client communication.

TECHNICAL SKILLS

- · Languages: Java, SQL, Python, HTML
- · Concepts: Data Modelling, Algorithms, Machine Learning fundamentals,
- · Databases: Oracle, MySQL, AWS Redshift, MongoDB
- · Technologies: REST API, Apache Hive, Spark, Amazon EC2, Git, S3, Airflow

EDUCATION

Master of Science, Computer Science

Aug 2019 - May 2021

University of Florida

GPA: 3.8

Bachelor of Engineering, Information Technology

Aug 2013 - June 2017

University of Pune

CGPA: 7.6

WORK EXPERIENCE

Software Engineer, ZS Associates

July 2017 - May 2019

Designed and developed cloud-based data analytics software products in **Python**, **SQL**, **Spark**, **and Hadoop** framework for analyzing mid-tier pharma clients' sales and marketing data and assist them in key business decisions.

- Saved over \$200,000 and 100+ hours of development effort by designing optimized and scalable algorithms for modules such as salesperson incentivization and point in time analytics.
- Re-designed and **reduced operations runtime by 30%** by orchestrating job automation through Airflow scheduler. Successfully tested and deployed the system changes to production servers.
- Awarded "ZS Impact Recognition Award" for exceeding client expectation for project delivery and quality by leading 3 associates through planning, task management, code review sessions and overseeing project milestones.

CERTIFICATIONS

- · Udacity Machine Learning Engineer Nanodegree
- · Software Fundamentals Microsoft Certified Professional

PROJECTS

Data Analytics Web Dashboard (JavaScript, REST API, NodeJS, Oracle DB)

- Built a full stack web application with responsive data visualisations for monitoring restaurant inspection data. Reduced server response time using **AJAX** calls, which improved overall user experience.
- Reduced data volume by 27% with data normalization techniques to organize data and eliminate redundancy.

Compiler for LUA (Java, JUnit)

- Built a scanner, parser, interpreter and compiler for LUA programming language in Java.
- Analyzed Lua grammar and built 100% fault tolerant program using JUnit and Error handling.

Sentiment Analysis Web App (PyTorch, SageMaker)

- · Developed and deployed a web app on AWS to analyze and classigy user reviews as positive or negative.
- Reduced the data volume by 30% by transforming the text data into one dimensional data dictionary arrays.
- · Achieved highest accuracy of 91% using XGBoost model.

Handwritten Digit Recognition (Python, NumPy, TensorFlow)

- Developed a Convolutional Neural Network model using tensorflow to classify noisy and high dimensional images
 of handwritten digits. Achieved an accuracy of 94.8%, which was awarded the "best model" in class.
- Improved performance by reducing pixel range for images thereby reducing noise, augmenting external data for model generalization and adopting hyperparameter tuning techniques.