

# Ranjan Ravi

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## **PROFESSIONAL SUMMARY**

Experienced professional with three years of experience in Data Analytics, Reporting and Web Application Development. Well versed in design and development of applications end-to-end in Agile Technology.

## **EDUCATION**

**Master's in Business Analytics and Information Systems**, University of South Florida, Tampa, Florida      Expected May 2023

**Bachelor's in Computer Science and Engineering**, Madras Institute of Technology, Anna University, India      April 2018

## **WORK EXPERIENCE**

**Research Assistant, University of South Florida, Tampa**      Nov 2021 – Present

- Involved in Data Cleaning and Preprocessing the Spot prices of different compute instances using Python.
- This research explores the dynamic prices of different compute instances provided by a leading cloud computing company. The goal of this research is to find if consumers substitute resources in the cloud spot market.

**Data Engineer, TRIMBLE Inc, Chennai, India**      Feb 2021 – Aug 2021

- Involved in Data Collection, Data Cleansing and loading the Civil Construction project details of Trimble into Snowflake tables using Python.
- Experimented different time series forecasting algorithms in predicting the future revenues of Civil Construction division of Trimble and built an efficient Facebook Prophet Time Series Forecasting model with 83% accuracy.
- Built an ML pipeline by loading the above best forecasting model in AWS Lambda. Input for this forecasting model would be read from Snowflake and the forecast results would be written to Snowflake. Later, Visual plots generated using Domo are being shared with the stakeholders.

**Associate Software Engineer, BNP PARIBAS India Solutions Private Limited, Chennai, India**      Jun 2018 – Nov 2020

- Part of a backend development team where we are responsible for implementing the business logic for each requirement with Java and responsible for building tax forms with Jasper reporting tool and writing the PL/SQL procedures where the tax calculation and final settlement logic were handled.
- Involved in design and development of technical specification document for business requirements specified by each tax authorities of 100+ countries.

## **TECHNICAL SKILLS**

Programming Lang. & Frameworks: Python, Flask, Java, Struts, C, PL/SQL, HTML & CSS, JavaScript, REST APIs

Databases: Oracle, PostgreSQL, MS SQL, SQLite

Cloud Technologies: Snowflake, Azure ML Studio, Amazon web services - EC2, S3, EFS, Lambda

Python Packages: TensorFlow, Scikit-Learn, Pandas, Numpy, Beautiful Soup, OpenCV, Requests

Reporting Tools & packages: Jasper reports, Crystal reports, Tableau, Matplotlib, Seaborn, Plotly, Domo

Time Series Forecasting algorithms: Facebook Prophet, Neural Prophet, ARIMA, Exponential Smoothing, LightGBM, LSTM

## **PROJECTS**

- Covid-19 Tracker:** Built a website with an interactive chart to display the confirmed, recovered and deceased coronavirus cases trend on a per day basis. | [URL](#) | [Github](#)
- Linear Regression Model and Web Scrapping using Real Estate Data:** Designed and built a web scraper program in Python to scrape house data from a real estate website. Later, I built a simple Linear Regression model between the price and the total size (sq.ft) of the houses. | [Github](#)
- Face-Mask Detection:** Developed a real-time face mask detector to detect faces whether a person wear a mask or not. | [Github](#)
- Personal Portfolio:** Developed a compactible personal portfolio using HTML5/CSS3, Bootstrap and deployed in Heroku Cloud Platform. | [URL](#) | [Github](#)