

Ranjan Ravi

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PROFESSIONAL SUMMARY:

Experienced professional with two years of experience in Web Application Development and Business Intelligence. Well versed in design and development of applications end-to-end in Agile Technology.

EDUCATION:

BE in Computer Science and Engineering

April 2018

Madras Institute of Technology, Anna University, India

WORK EXPERIENCE:

Associate Software Engineer,

Jun 2018 – Nov 2020

BNP PARIBAS India Solutions Pvt.Ltd, Chennai, India

- a) Working in Banking IT services especially in Tax Department project called STARR (System of Tax Reclaim and Relief) built with Spring, Struts and SweetDev frameworks and the reports were developed with Crystal and Jasper reports.
- b) Involved in design and development for business requirements specified by each tax authorities present in different countries.
- c) Calculation and final settlement of tax reclaims for dividend payments after processing the beneficiary and stock details, generating tax forms for 100+ countries.

TECHNICAL SKILLS:

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

Databases: Oracle, MySQL, PostgreSQL

Cloud Technologies: Amazon web services - EC2, RDS, S3, Elastic Search, Elastic Cache.

Python Packages and Frameworks: Pandas, Numpy, SciKit-Learn, Tensorflow, BeautifulSoup, OpenCV, Bokeh, Dash, Plotly

Reporting Tools & packages: Tableau, Matplotlib, Seaborn, Jasper reports.

PROJECTS:

- a) **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. I used BeautifulSoup package from python for scrapping. After collecting the data, I stored it in a CSV file and used it for Data analysis. Later, I built a simple Linear Regression model between the price and the total size (sq.ft) of the houses.
- b) **Optimal Spatial query processing algorithm in Cloud Databases:** The objective of this undergrad project is to enhance the performance of spatial range queries and nearest neighbor queries by reducing the query processing time using the K Nearest Neighbor (KNN) algorithm. Used **Amazon Elastic Compute cloud** (EC2) to host the application and created a DB instance in **Amazon RDS** to store the spatial data. Added extra layer of security for both the user queries and their responses using Advanced Encryption Standard (AES) algorithm.
- c) **Covid-19 Tracker:** Built a webpage using **Dash** and **Flask** having an interactive chart built with **Plotly** to display the confirmed, recovered and deceased coronavirus cases on a day to day basis. Moreover, the news headlines of a country about the coronavirus would be displayed as per the user's selected country. Here, I used the covid-19 data collected from John Hopkins University.
- d) **Online Product Auction:** An interactive web application built using Java, JavaScript, HTML, CSS, Bootstrap and Oracle wherein the admin would update the products list and the bidders would start bidding once the product is available. A timer has been set such that after a given timeframe, the product will be sold to the bidder.

CO-CURRICULAR ACTIVITIES:

- a) Completed Oracle certified Java 8 certification.
- b) Attended "Big Data Analytics" workshop in Prayatna-2017, a national level technical symposium conducted by Anna university, Chennai.
- c) Organized both Technical and Non-Technical events in Prayatna-2018.