Vardhini Manivannan

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EDUCATION

University of California, Davis   **San Francisco, CA**
Master of Science, Business Analytics (GPA: 3.83)   June 2020
Honors: Beta Gamma Sigma academic honor society

Madras Institute of Technology   **Chennai, India**
Bachelor of Engineering, Computer Science (CGPA: 9.19/10)   May 2012

SKILLS

Specialties: ETL, Database Design and Data Models, Data Warehouse, Data Mapping, Web-Scraping
Technologies: SQL, Python, Tableau, AWS, R, Informatica, Statistical tests, Machine Learning, Spark, Java
Certifications: AWS Cloud Practitioner, Tableau Desktop Specialist

PROFESSIONAL EXPERIENCE

Sutter Health – California Pacific Medical Center (RI) MSBA Practicum   **San Francisco, CA**
Project Manager and Data Engineering Lead   October 2019 – June 2020
The key objective is to create an automated data platform for conducting the analysis of drug screening data.
- Delivered a scalable data platform using MySQL hosted on AWS and designed the database schema
- Implemented the data pipeline to ingest drug screening data eliminating 95% of the manual efforts
- Developed regression models to calculate the key metrics for drug screening analysis
- Consolidated historical data and performed data wrangling using Pandas and NumPy in Python
- Executed dashboards using KPI's in Tableau to perform drug screening analysis reducing its time by 60%

PayPal   **Chennai, India**
Software Engineer (levels - 1 and 2)   June 2012 – February 2017
- Designed and developed the ETL module for reconciliation that loads millions of transactions to the Data warehouse by using data analysis to translate business requirements to technical specification
- Automated file archival logic using Unix scripts, removing need for 95% of manual disk space maintenance
- Headed the fine-tuning of ETL batches to maintain consistent run time while processing high volume of data
- Worked with data architect to design the data warehouse and developed the ETL pipeline for data sourcing
- Implemented a generic balance calculation module to manage different time zone requirements using configuration files and reduced the development efforts by 93%
- Conducted knowledge sharing sessions for new hires and achieved 50% faster ramp uptime

ACADEMIC PROJECTS

1. *Job market analysis (Python, Tableau, AWS Dynamo DB, Logistic Regression)*
   - Scraped 35K job postings from websites using Python and stored them in DynamoDB
   - Identified the top skills for each title and predicted if salary is above median based on the required skills
2. *Diabetes Prediction (Python, CRISP - DM, Machine Learning models)*
   - Developed a classification model to identity diabetic prone people based on their health profile
   - Provided insights to the doctors which can be used to suggest proactive measures for the patient
3. *Effect of Banner Ads (Excel, Statistical Analysis)*
   - Analyzed an AB testing experiment to evaluate the effect of banner ads using statistical tests
   - Performed customer segmentation to enable the delivery of ads to target users and to increase profit

AWARDS & PUBLICATION

- Adobe Analytics Challenge – Second place, out of 230 teams competing nationwide (2019)
- PayPal Spot Award - For going above and beyond with the database query optimization project (2016)
- Grace Hopper Conference India Hackathon - First place, out of 300 teams competing nationwide (2015)
- Developed a data reduction algorithm based on epsilon approximation and Published "*Agent Based Health Monitoring of Elderly People in Indoor Environments Using Wireless Sensor Networks*" in 4th International Conference on Ambient Systems, Networks and Technologies (ANT & SEIT 2013)