Bharath Jagadish

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SKILLS

- Programming Languages: Python, R, Bash, MATLAB
- Relational Database: Oracle, MySQL
- Big Data: Hive, Impala, HBase, Druid
- Data Analysis: Jupyter, Scikit-Learn, Pandas
- Data Visualization: Tableau, Matplotlib, Seaborn

EXPERIENCE

Apple **Sunnyvale, CA**
Data Analyst April 2016 - Present

- Collaborated with Product Quality, Electrical Engineering and Compliance teams to design, develop, and deploy self-service analytics tools to monitor manufacturing data.
- Processed and analyzed terabytes of test station data stored in HDFS using Hive and Python to capture quality issues and reduce field failures by 35%.
- Refactored code and reconfigured workflows when Oracle based product data collection system was replaced by a Hadoop based manufacturing analytics platform.
- Defined KPIs to assess, analyze and track manufacturing processes. This led 40+ overseas contract manufacturing sites to maximize efficiency and improve production yields.
- Mentored and supervised 5 new hires in Asia to support data quality and master data management.

Delta Med-Tech International **Fullerton, CA**
Data Analyst May 2015 – Mar 2016

- Set up data pipeline that ingests repair data in the form of flat files and stores in MySQL database.
- Presented strategic insights to business development managers by performing cleaning/analysis in Jupyter.
- Developed predictive models using historical purchase data in Python to identify “revenuable” devices.
- Built an E-Commerce website in WordPress and tracked customer metrics in Google Analytics.
- Performed A/B testing, optimized email marketing and significantly increased ROI by 20%.

University of California **Irvine, CA**
Graduate Student Researcher Sep 2013 – Mar 2015

- Developed mathematical models and provided numerical solutions in MATLAB to examine the role of T cells (while blood cells) in an immune response.
- Designed stochastic computer simulations to evaluate clinical course of Herpes Simplex Virus.
- The simulations helped Laboratory of Cellular and Molecular Immunology, UC Irvine to understand disease pathology and facilitate vaccine design and immunotherapy; results contributed to thesis.

JSW Steel **Bellary, India**
Process Engineer Jun 2012 – Aug 2013

- Developed a computerized system to track and document the transformation of raw materials to finished goods called Manufacturing Execution System.
- Designed, tested and installed Programmable Logic Controller and control software as part of a highly automated, high volume 24/7 validated production environment.
- Built statistical models and applied machine learning algorithms to shop floor data sets to estimate equipment failure rates, streamline inventory management, and target energy-inefficient components.

EDUCATION

University of California Irvine Sep 2013 – Jun 2015
M.S in Chemical and Biochemical Engineering

- Thesis: *Mathematical Modeling of T-cell Exhaustion and PD-1 Blockade in Chronic Infections*

Visvesvaraya Technological University Sep 2008 – Jun 2012
B. Eng. In Chemical Engineering