MANUSHREE SANNATHIMMAPPA

DATA SCIENCE | BUSINESS INTELLIGENCE

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https://manushree-sannathimmappa.github.io/

MOTIVATION

I influence decision makers showcasing the data behavior and patterns. I communicate clearly and concisely with data, and how they drive business outcomes.

EDUCATION

Master of Science - Business Analytics - Grade 3.9
California State University East Bay, California, USA

Aug 2020 - May 2022

Bachelor of Engineering - Information Science - Grade 3.6
Visvesvaraya Technological University, Bengaluru, India

Jul 2007 - Jul 2011

SKILLS & TOOLS

Programming: Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras), SQL.

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis

Tools and Industry Knowledge: Github, MS Office, AWS, Tableau, Spyder, Agile, Statistics.

EXPERIENCE

Data Scientist - Graduate Research Assistant
California State University Easy Bay

Nov 2021 – Apr 2022

Research on legal case data filed by employees with epilepsy facing discrimination at workplace. Performed statistical analysis using ML helping research to quantify the support required for reasonable accommodation.

Module Data Lead - Human Machine Interface
Elektrobit Automotive GmbH

Aug 2018 – Feb 2020

- Solved low quality and inaccurate data problem by re-defining metrics and cleaning data at organization level resulting in 85% increase in functional and serviceable data availability by 6 months.
- Created automated and interactive dashboards from complex systems using ETL to generate a dynamic report that helped senior management investigate delivery performance and diagnose potential issues.
- Trained up to 70% of employees in Scrum improving self-organization and effective communication.

Assistant Manager - Data Centre of Excellence
Altran

Apr 2015 - Jul 2018

- Built predictive models by processing large datasets using supervised ML algorithms that estimated Defect Leakage to customers with an average prediction performance(adj r-squared 92%). This led to increase in code reviews by 80% and implementing Github and Collaborator code review tools.
- Analyzed several team's performances by A/B Testing using Paired sample t-test. This led to gauging the improvement actions and reorganizing team structure.
- Created Organization and domain specific Performance Baselines using statistical techniques. This led to approaching new customers with a proven track record and winning the proposals worth ~$5M business.
- Coached 40% of teams on Agile transformation which led to better collaboration among the stakeholders.

Software Engineer - Metrics Data Council
HCL Technologies

Sep 2011 - Apr 2015

- Built several predictive models using ML - Multiple Linear Regression that estimated project team's productivity, overall cycle time and Defect Density with an average prediction performance(adj r-squared 85%). This led to improvement in team's planning and delivery increasing new projects from existing customers by ~ 30%.
- Solved high cost data solutions by aligning with business goals by implementing a strategic plan in a major Delivery Unit with a headcount of 800 saving the budget by 20%.
- Conducted Hypothesis Testing- A/B Testing using Chi Square and t-tests which led to identifying process gaps and innovation. 60% increase in team members came with customer value-creation ideas.

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PROJECTS

Deep Learning Image Search Engine

Used Transfer Learning in Convolutional Neural Network to build a Deep Learning based Image Search Engine that will help customers find similar shoes with an image.

Quantifying Sales Uplift With Causal Impact Analysis

Using Causal Impact Analysis to analyze & understand the sales uplift of customers that joined the new campaign.

"You Are What You Eat" Customer Segmentation

Used k-means clustering on grocery transaction data to split out customers into distinct "shopper types" that could be used to better understand customers over time, and to more accurately target customers with relevant content & promotions

Alcohol Product Relationships

Used Association Rule Learning to analyze the transactional relationships and dependencies between products in the alcohol section of a grocery store.

AWARDS AND CERTIFICATIONS

- Hats-off Award demonstrating an impeccable sense of responsibility and going beyond the call of duty.
- Top 10 BSPIN Lean Agile Transformation Award showcasing a case study in innovation and collaboration.
- Honored in COO's recognition to have successfully implemented prediction models and creating baselines that led to new business opportunities and improvement in project's efficiency.
- Six Sigma Green Belt - from Indian Statistical Institute for successfully demonstrating project improvements.
- Certified Scrum Master - enabled and coached teams for implementing Agile's best practices.
- Certified Data Science Professional - successfully implemented the projects using Machine Learning and Deep Learning algorithms in Python.