MANUSHREE SANNATHIMMAPPA

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

DATA SCIENCE | BUSINESS INTELLIGENCE

MOTIVATION

I am passionate about solving business problems using Data Science. I creatively use my skillset to add tangible value to the team and the business. I am constantly learning, and practice continual improvement.

SKILLS & TOOLS

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

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

Other: Statistics, Github, Data Visualization, MS Office, Tableau, Spyder, Jupyter Notebook.

EXPERIENCE

Module Lead - Elektrobit Automotive
AUG 2018 – FEB 2020

- Created metrics at organization level which led to educating employees about the need and importance of data.
- Created automated and interactive dashboards to generate a dynamic weekly report that helped senior management understand and investigate trends over time, and diagnose potential issues.
- Trained up to 70% of new joiners and 20% of total employees in Agile methodologies.

Assistant Manager - Altran Technolgies
APRIL 2015 - JULY 2017

- Built predictive models using Multiple Linear Regression and Logistic Regression that estimated project team's Defect Leakage to customers with an average prediction performance(r-squared 92%). This led to reorganizing team structure and increase in code reviews and implementing code review tools.
- Analyzed several team's performances by conducting AB Testing using Paired sample t-test. This led to gauging whether actions taken were effective or not.
- Created Organization and domain-specific Performance Baselines using Outlier Analysis. This led to improvement in data tracking by 60% and analyze their performance against the baseline.
- Coached 40% of teams on Agile transformation which led to better collaboration among the stakeholders.

Software Quality Engineer - HCL Technologies
SEPTEMBER 2011 - APRIL 2015

- Built several predictive models using Multiple Linear Regression that estimated project team's productivity, overall cycle time and Defect Density with an average prediction performance(r-squared 85%). This led to improvement in team's planning and delivery by ~ 20%.
- Initiated data tracking and retrospectives in a major Delivery Unit with a headcount of 800 which helped projects's delivery performance by 30%.
- Conducted Hypothesis Testing- AB Testing using Chi Square and t-tests which led to proposing changes to team's structure and identify needs needed for improvement.

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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.

EDUCATION

Master of Science (Business Analytics)
2020 - 2022 - California State University East Bay, California, USA

Bachelor of Engineering (Information Science)
2007 - 2011 - Visvesvaraya Technological University, Bengaluru, India

AWARDS AND CERTS

- 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 that led to improvement in project's efficiency.
- 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.