

Jaspreet Singh

Decision Scientist

A firm believer in learning over knowing & extreme experimentation. Am passionate about working on ideas that are innovative & impactful

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WORK EXPERIENCE

Random Forest Based Production Halts Reduction

Mu Sigma Business Solutions Pvt Ltd

Aluminum Conglomerate

- Built a Random Forest based fault prediction model, achieving 88% accuracy, for the global leader in Aluminum Conglomerate
- Reduced aluminum production halts, with precise prediction of potential halts and backlogs
- Deployed the model via CI/CD implementation in Azure DataBricks

Neural Networks Based Monthly Sales Prediction

Mu Sigma Business Solutions Pvt Ltd

Retail Industry

- Developed Recurrent Neural Network (RNN) based sales forecasting model to achieve weekly demand forecasting at Product-Store level
- Reduced Out of Stock occurrences by 6%-20% improvement in accuracy (various retail product categories), compared to per-existing predictions
- Delivered solution using Python, Keras and TensorBoard

Computer Vision based Brick & Mortar Store Analysis

Mu Sigma Business Solutions Pvt Ltd

Brick & Mortar Stores

- Implemented YOLO-v3 based deep learning solution to achieve improved insights on customers behavioral pattern in physical stores
- Assisted clients to create series of business decisions correlated to consumer behaviors and response with 70% less manual intervention
- Actionable business adoption included improved Staff Management, Aisle & Product placements, Queue Management, Adoption of Scan&Go counters, etc.

Natural Language Processing Based Early Trends Detector

Mu Sigma Business Solutions Pvt Ltd

eCommerce Stores

- Accomplished NLTK based early-stage trend detector at week-product category level
- Eliminated client's sourcing & procurement team's invisibility to unseen trends, and visibility to historically unheard product demands
- Produced solution was adopted by clients as their official banner product for 2019 Black Friday Sale

EDUCATION

Bachelor of Technology in Computer Science Engineering

Lovely Professional University

Senior Secondary Schooling

Natwar Gov Multipurpose School

Secondary Schooling

Carmel Convent Senior Secondary School

SKILLS

Python

Pandas

Numpy

OpenCV

scikit-learn

Tensorflow

Keras

OpenCV

NLTK

Seaborn

Matplotlib

SQL

DataBricks

DataRobot

PowerBI

Jira

Azure Taskboard

IBM Blue Works

ACHIEVEMENTS

Sport Award: Mu Sigma (09/2021)

For excellence work in consistent delivery quality and team management

Trained 100+ inductees on Neural Network based projects and technologies

PERSONAL PROJECTS

Project 1

- <http://project1.juspreet51.in>

Project 2

- <http://project2.juspreet51.in>

Project 3

- <http://project3.juspreet51.in>

CERTIFICATES

Python for Time Series Data Analysis 

RELEVANT COURSEWORK

ISL: Trevor James, Witten, Hastie & Tibshirani

HoML-2e: Aurelien Geron

Multivariate Calculus: James Stewart

Machine Learning: Andrew Ng

INTERESTS

Blogging

Boxing

Reading