Kushal Pal Singh

Data Scientist

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EXPERIENCE

Asadeltech Private Limited, Delhi — *Lead AI, R&D*

Dec 2018 - Nov 2019

- **Nature of Work**
  - Consulting, Handled end to end post-sales to delivery of the products. Also, Development of Learning architectures and
  - Setting up projects for future inhouse development on projects relating to Image processing and Video Analytics.
- **Projects with ASADEL**.
- Object Detection.
  - Detection of faucet parts used in business to make sure the quality of packing doesn't miss any part and ensure the quality of deliverables.
  - This product is built using RetinaNet and OpenCV for Image processing.
  - https://youtu.be/kvrvuBJwe5w
- ANPR (Automatic Number plate recognition system)
  - This was integrated with the Indian Army and an MNC for ensuring secure and fast gate entry.
  - This product is built RetinaNet, Pytesaract, CNN, and OpenCV.
  - https://youtu.be/exFfV6g2bF8
  - https://youtu.be/8_iHUil1PQo
- Face recognition
  - This product was created for visitor management and employment tracking of a leading MNC.
  - This product is built using FaceNet, K-means, and OpenCV for Image processing.
  - https://youtu.be/21_cJyDSHSg.

Data Scientist
Geospatial Data Analytics Private Limited/Mzaya Private Limited

June 2018 - Dec 2018

- Mantle-labs.com
  - **Nature of Work**
    - Helped to build mantle-labs.com from scratch. The role included taking inputs from clients like fertilizer companies and Banks and provide a dashboard to take business decisions.
  - **Projects**
    - **Farm Ranking**:-
      - This was to rank the farms in order to generate leads based on the yield history of the farms.
    - **Heliosbu**:-
      - This is an Engine based on AI to remove the clouds from the satellite data images.

SKILLS

Languages:-
Python, R
Python Packages:-
Pandas, Scikit-learn, Numpy, Scipy, Tensorflow, Keras, OpenCV, Pytesaract,python-NLTK, SpaCy,
Data Visualization:-
ggplot2, matplotlib, Tableau, Power BI
Statistical Modeling:-
Linear Regression, Logistic Regression, Bayesian Models, Multivariate Analysis, Hypothesis Testing
Time Series Forecasting:-
Arima series
Neural Networks:-
ANN, CNN, RNN, LSTM, SOM
Database:-
SQL, Hbase, Hadoop

LANGUAGES

English, Hindi

- NSE
  - **Nature of Work**
    - Detecting different Frauds happening in the stock market and sending a daily report to SEBI.
  - **Projects**
    - **Front Running**:-
      - This was to test if any person is making a small trade just before a Big trade to gain instance profit.
    - **Pump and Dump**:-
      - This algorithm was to track if some group of people is buying and selling just to rase the price of a particular trade.
    - **Circular Trading**:-
      - This was to check if a group of people is buying and selling in a loop to increase or decrease a price and earn the profit.
    - **Insider Trading**:-
      - This was to track if someone had information and was trying to leverage it by stock manipulation.

Capgemini India Private Limited, Mumbai — *Senior Analyst*

Sept 2015 - Dec 2017

- **Client -Bayer**
- **Nature of Work**:-
  - Bayer hosts around 80,000 websites around the world for multiple clients. These websites have Google 360, Web trends, Adobe analytics to get insight into the users and the profiles of the products. The job was to give adhoc analysis and business suggestions to stake holders and top managements of Bayer.

EDUCATION

Savitribai Phule Pune University, Pune— *Btech (CS)*

July 2011 - June 2015