Shubham Singh

Data Scientist

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PROFESSIONAL SUMMARY

- Experienced Data Scientist armed with a proven track record of handling data, developing **Machine learning** and **Deep learning** models and deploying them.
- Machine Learning enthusiast skilled with knowledge in **Data Science , Python Programming and Statistics**.
- Machine learning model deployment by using **Django** and **Flask** on **Google Cloud Platform.**

TECHNICAL SKILLS

- **Linear Regression** • **Logistic Regression**
- **Clustering** • **Support Vector Machines**
- **Random Forest** • **XGBoost**
- **Data Modelling** • **Object Detection**
- **Neural Networks** • **Segmentation**
- **Deep Learning** • **Transfer Learning**
- **Image Processing** • **Text Detection**
- **OCR** • **CNN** • **RNN** • **LSTM** • **NLP**
- **Predictive modelling**
- **Data Modelling**
- **Model Building** • **Model Optimisation**
- **Model Deployment**
- **REST API**

PROGRAMMING LANGUAGE

- **Python** • **SQL**

DEEP LEARNING FRAMEWORKS

- **TensorFlow**
- **PyTorch**

ML LIBRARIES

- **Numpy**
- **Pandas**
- **Keras**
- **Matplotlib**
- **Seaborn**
- **Scikit-learn**
- **OpenCV**
- **NLTK**
- **PyCaret**

WEB FRAMEWORKS

- **Django**
- **Flask**

PLATFORMS AND TOOLS

- **Google Cloud Platform**
- **Docker**
- **Git**
- **GitHub**
- **GitLab**
- **Visual Studio Code**
- **PyCharm**
- **Anaconda Navigator**

PROFESSIONAL EXPERIENCE

1. Data Scientist
CrowdANALYTIX

Jul '21 - Present
Bengaluru, IN

An AI company with the tools and vast network of data scientists to build enterprise-grade custom solutions deployed on a secure, scalable server and integrated via APIs.

As a Data Scientist my daily roles and responsibilities includes :
- Training and developing machine learning and deep learning models by using suitable algorithms as per the problem statement and business requirements.
- Packaging and deploying ML/DL models by using Flask or Django and Google Cloud Platform.

DATA SCIENCE PROJECTS
- **DEPLOY X**

Contributed to a machine learning API Marketplace development with multiple Machine learning , Deep learning , ETL and Regex models readily available.
Used the opportunity to work on following ML/DL models :

1. WEAPONS DETECTION | Deep Learning | CNN | ImageNet
Developed and implemented a deep convolutional neural network classification model to detect firearms in an image or video given as an input which can further be integrated into traditional surveillance and security systems.
Key achievement : F1 Score = 0.80 , AUC Score = 0.95
Tools & technologies : TensorFlow , Keras , Numpy , Pandas , OpenCV , CNN

2. IMAGE CAPTIONING | Deep learning | RNN-CNN
Developed a CNN-RNN deep learning attention-based model by using pre-trained ImageNet weights of the InceptionV3 model to describe images by generating captions in speech output.
Key achievement : BLEU score of 0.75
Tools & technologies : TensorFlow , Keras , Numpy , Pandas , Seaborn , CNN , RNN

3. NUTRITIONS FACTS | Text Detection | Optical Character Recognition
Contributed to a text detection API that extracts nutrition tables from food packages image given as input and processes text to return request specific nutrition attributes and measure/count to the user in a clean format.
Key achievement : Deployed by using Django , TensorFlow Serving and GCP
Tools & technologies : Regex Models , AzureOCR , TensorFlow Serving, Keras

2. Data Science Engineer
Tech.I.S

Aug '20 - Feb '21
Bangalore, IN

Japan based Ed-Tech company providing services in online learning courses in Data Science and WebDevelopment in US & Japan.

Lead Score Classification | Logistic Regression
- Created a classification model by using statsmodels api on past leads data gathered by the company to assign a conversion score/probability to the leads to target hot leads with high scores to increase lead conversion rate.
- **Key achievement :** Train Accuracy = 0.82 , Test Accuracy = 0.81

3. Cluster Manager
Stayabode Ventures

Sep '18 - Nov '19
Bangalore, IN

Real estate startup company which provides easy accommodations and community living spaces .

Housing Price Prediction | Advanced Regression | Price Prediction
- Trained an advanced regression price prediction model for the company to predict prices of different properties in Bangalore to decide whether to invest in them or not in order to reduce loss risk and maximising profits in revenue.
- **Key achievement :** Prediction with MSE score of 0.0184 on test data.

EDUCATION

PG Diploma in Data Science
IIIT Bangalore | upGrad

Dec '19 - Jan '21
Bengaluru, IN

Private university in Karnataka(Bangalore).

B. Tech. in Computer Science Eng
Ajay Kumar Garg Engineering College

May '14 - Jun '18
Ghaziabad, IN

Dr. A.P.J. Abdul Kalam Technical University