

SHIVAM PRADHAN



About Me



2.11 Years Experience



+91-8982002606



August 10, 1996



Spradhan8020@gmail.com



Pune, Maharashtra



<https://github.com/shivampradhan>

Profile Summary

- ✚ 2.11 years of versatile experience in **Machine Learning, Python, SQL & Computer Vision**.
- ✚ Worked **On-site** in a banking project with both on shore and off shore colleagues.
- ✚ Worked on Bandit algorithms and A/B testing and have good knowledge of reinforcement learning.
- ✚ Gained exposure in Python, Statistics, SQL, **TensorFlow, Keras** and Regression Model.
- ✚ Skilled in providing insights into obtaining, describing, visualizing and using data for making right business decision through quantitative research, advance data sourcing and data profiling.
- ✚ Good Knowledge of **Statistics and Mathematics**.
- ✚ Knowledge of automating unsupervised learning methods such as anomaly detection and **clustering**.
- ✚ Skilled in developing advanced statistical and AI/Machine Learning models for large-scale, high-dimensional data using algorithms like **Artificial Neural Networks, LSTM**, Deep Neural Networks, Linear, Polynomial, Logistic Regression, Multi-class Classification **Decision Tree, Random Forest**, Anomaly Detection, and Collaborative filtering
- ✚ Hands on experience of data mapping, profiling, cleansing, and monitoring data, synthetic **data generation** to increase the limited datasets.
- ✚ Competent in providing insights into obtaining, describing, visualizing and using data for making right business decision through quantitative research, advance data sourcing and data profiling Developed intricate algorithms based on deep-dive statistical analysis and predicting data modelling.
- ✚ Currently developing chatbots solutions with **AWS Lex for chatbot development creating a software toolkit**.



Skills

- **Programming Languages**
Python, R, C++
- **Frameworks**
Keras, Spark, Tensorflow and Flask
- **Data Visualization**
Plotly, Seaborn, Matplotlib, Excel and Tableau
- **Web Technology**
HTML, CSS, Streamlit
- **Databases**
MySQL, Oracle, MongoDB, Sybase
- **Fields worked on**
AWS, Data Analytics, Machine Learning, Deep Learning, Natural Language Processing



Education

- **PG Diploma in Artificial Intelligence**
from CDAC ACTS, Pune in 2020 (3rd rank overall)
- **B.E (Electronics and Telecommunication)**
from I.E.T DAVV – Indore with 67.3% in 2018
- 12th from M.P.B.S.E with 77.2 % in 2013
- 10th from M.P.B.S.E with 80.3% in 2011



Achievement

- Scored 18th AIR in CCAT entrance exam for CDAC in 2019
- Scored 9977 AIR in JEE Advance in 2013



Certification

- **Azure Data Scientist Associate** ,Azure Fundamentals and Azure AI Fundamentals from Microsoft in 2021
- PG Diploma in Artificial Intelligence from CDAC ACTS, PUNE in 2020
- Getting Started with **AWS** Machine Learning from AWS via Coursera in 2020
- **Convolutional Neural Networks** From deeplearning.ai at Coursera in 2020
- Deep Learning with **TensorFlow 2.0** at Udemy in 2019
- Neural Networks and Deep Learning from deeplearning.ai in 2019



Training and Workshop

- Embedded System Training at Techwiz - Key Learning: PCB Designing, Sensor & Eagle in 2018
- Vocational Training at BSNL - Key Learning: Switching System ,Optical Fiber & Power Supply in 2017
- Attended Workshop on Making RF Receiver and Transmitter Car from Robotronix in 2016



Work Experience

- Currently working in Xpanxion International (Blueconch Technologies) from Aug 2020
- 2 year 1 month worked in Accenture from May 2018-to June 2020

NLP Developer in AI Rating System using user comments Project	
Project	Advance Product Rating System Using Insights from User Comments
Duration	Jan-2021 – Feb-2021
Client	Xpanxion International
Organization	Xpanxion International
Team Size	4
Responsibility	Developing NLP code of the application
Library	Flair, NLTK, Autocorrect, Textblob, Pandas, Python
Project Description	<ul style="list-style-type: none"> • Current rating system only provide ratings given by customer but didn't consider the important insights present in the comments .Our system provide rating of some attributes by taking insights based on the comments given by user.

Developer in a Time Series Project	
Project	Predicting Sales of Products using Time Series Models
Duration	Sept 2020 – Nov 2020
Client	Xpanxion International
Organization	Xpanxion International
Role	Developer
Tools	Statsmodels, Plotly, Seaborn and Pytrends
Description & Responsibilities	Analyzing and predicting sales using Arima models <ul style="list-style-type: none"> • Collecting data using Pytrends and DB • Making data stationary through differencing and logging • Using Statsmodel finding the right model and best values of parameters • Forecasting results and visualize them. • Peer Review and Presentation of the analysis

Created POC on Reinforcement Learning for Recommendation System Project	
Project Description (Oct 2020 - Aug 2020)	<ul style="list-style-type: none"> • Created a POC on AB testing and Bandit Algorithms • Compared and presented different type of bandit algorithms like Greedy algorithms, Epsilon greedy algorithm, Softmax algorithm, UCB algorithm, Thompson algorithm and Contextual Bandit algorithm

Freelancer In a End to End Machine Learnig Project	
Project	To Classify Expected Salary of Employee
Duration	June-2020 – August-2020
Client	Upwork Research
Organization	Upwork
Role	Freelancer
Tools	Python, Sklearn, Xgboost, SMOTE, Ensemble Learning, Pandas Profiling
Project Description	<ul style="list-style-type: none"> • To create data report and basic analysis on the raw data • Data cleaning, preprocessing , Regularization • Use SMOTE for solving data imbalance issue • To find important Features using Hypothesis Testing and correlation matrix • To predict using various model and use Ensemble Learning to generalize it

Developer in a Computer Vision Project	
Project	Face Generation Using Gans For Optimizing Face Recognition
Duration	Nov-2019 – Feb-2020
Client	CDAC GIST
Organization	CDAC
Team Size	4
Responsibility	Face Recognition and Gans Training
Tools	OpenCV, TensorFlow, Face Recognition ,Dlib, Scikit-Learn & Pillow
Project Description	<ul style="list-style-type: none"> • To identify a person from only the side profile photo, We created an algorithm to use a photo of side face and convert it into the front face of the same person. • Used Haar Cascade Classifier and a neural network model trained in Caffee to detect and crop the region of a photo containing the face. • Used Keras with Tensorflow to model convolutional networks to create encoders and decoders which were used to implement the generator and discriminator models of neural networks in order to implement a modified form of Generator Adversarial Network architecture introducing a condition based learning and training in the image generation. • Trained a neural network to identify a person’s face from the given input of the generated image.

Project Description (Aug 2019 - Jan 2019)	Cash flow maintenance, Client Onboarding and CRM Tools Support on Client site Responsibilities : <ul style="list-style-type: none"> • Maintaining cash flow, resolving batch failures & data discrepancy Correction. • Debugging raised issue using SQL and Unix Scripting. • Leading a Team of 4 people
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Project Description (Dec 2018-Aug 2018)	Image labelling and augmentation task Responsibilities : <ul style="list-style-type: none"> • Data Annotation of the unclassified images of AWS SageMaker • Created Script of Data Augmentation
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Self Projects

- NLP Summaizer ,Sentiment and Text Analyzer Web App Using Streamlit**
 (Added by Streamlit in their weekly roundup section also)
Library used: Streamlit, Wordcloud, Textblob, Spacy, NLTK, Gensim
Description: A **web app** to do NLP Task like Text analysis & summarization with frontend created in Streamlit
- Aadhaar Card Number Extraction using Tesseract OCR and OpenCV**
Tools Used: Tesseract, Opencv, Matplotlib and Pandas
Description: To find aadhaar card number from image of Aadhaar with around 70% Accuracy