Sumedha Chakradeo
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Data Science, Computer vision ,
Natural Language Processing

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Career Goal: To embark upon a career which is Healthier and gives me an opportunity to learn and grow together with the organization.

Educational qualifications:

Exam	Marks	Board
M.Sc. (Statistics)	5.8 GPA (B+)	Pune university
B.Sc. (Statistics)	84% agg. (87% statistics) (Rank 1st in University)	Pune university
HSC	67.33% agg. (72% PCM)	Maharastra
SSC	76.40%	Maharastra

Skills

- **Data Science**:
  - Expertise in Data Analysis, statistics, programming and ML/AI techniques.
  - Extensive Model building experience with Machine Learning/AI algorithms.
  - Experience in creating mature Data science pipelines encompassing Data standardization, Feature extraction, model validation and optimization.
  - .Experience in NLP with text clustering, classification and sentiment analysis.
  - Experience with **Tensorflow**.
  - Experience with **Recommender systems** for product recommendation to the market.
  - Experience with Fraud Detection data using **Kernels and Deep learning techniques**.
  - In-depth expertise with a rich repertoire of **Regression, Classification, Clustering and Dimensionality reduction algorithms**.
  - Classifiers like Logistic
  - Experience in creating models using algorithms **Kernel-KNN, Decision Trees, Random-Forest, Gradient-Boosting and SVMs**.
  - Clustering includes partitioning types **K-Means, Aglomerative, dbscan and hirreieachial clustering**.
  - Visualization experience with **seaborn and matplotlib in Python**.
  - Applied Mathematics knowledge of Statistics, Probability, Differentiation & Integration, Vector spaces, Matrix algebra.
  - Fluency with Python for data-science investigations using different libraries such as **NumPy, SciPy, Pandas, Scikit-Learn** in Python.

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Tools & Languages: **Tensorflow,, Python, SQL, Tableau**.

Projects:

- ANPR: (Automatic number plate recognition) In any shopping mall , about paid parking system, Manual Information may lead to loss due to dishonesty or mistakes. ANPR system gives you detailed information about time in and out of particular vehicle, number plate information , total no. of vehicles parked. By this we can detect any fraud any evidence of crime in nearby area if vehicle is parked in your parking.
- Detecting fake text using_gltr_with_bert_and_gpt-2 : The aim of GLTR is to take the same models that are used to generated fake text as a tool for detection. GLTR has access to the GPT-2 117M language model from OpenAI, one of the largest publicly available models. It can use any textual input and analyze what GPT-2 would have predicted at each position. Since the output is a ranking of all of the words that the model knows, we can compute how the observed following word ranks. We can use this tool to analysize other automatic text generation systems.
- . Abstractive Text summarization : This is a very interesting approach. Here, we generate new sentences from the original text. This is in contrast to the extractive approach we saw earlier where we used only the sentences that were present. The sentences generated through abstractive summarization might not be present in the original text.

. Credit Card Defaulters: This project aims to bridge this gap of uncertainty by utilizing a data-driven approach by using past data of credit card customers in ***conjunction with machine learning*** to predict whether or not a consumer will default on their credit cards. Catching a Welcher: Classifying a Credit Card Defaulter. This dataset contains **30000 observations of 25 variables** from a bank.

. Maskrcnn_tf: Mask RCNN is an instance segmentation model that can identify pixel by pixel location of any object. We can use tensorflow object detection library to build custom Mask RCNN model.

Non industry experience:

- Worked as a lecturer in Statistics in Modern college, Shivajinagar from Jun 2005 to Jan 2006
- Worked as e-structor in Techknit in Statistics and mathematics
- Worked as actuarial analyst in Ranadey Professional services Pune from April 2008 to July 2008.
- Experience of teaching from Garware college from October to December.
- I have experience from S.P. College From February to end of April.
- I have experience as lecturer in A. Jedhe College for two terms.

I am currently working as jr. Data scientist in Acceltree software

Work Experience:

Organization: TATA Motors

Project Title: TATA Nano

Duration: Mar 2006 – Mar 2008

Tool: Microsoft Excel, Minitab

Project Abstract: The project involves study of warranty data to get statistical terms such as B (10), IPTV's and cumulative IPTV's graphs for month and Kilometers. It also involves tolerance using statistical technique such as simulation, sigma, C_p $C_{pk.}$

Role: I was involved in collecting data from SAP system, calculating IPTV's, B(10) values for dummy complaint codes, aggregates vehicles. Also I was involved in plotting cumulative graphs for vehicles such as Indica, Indigo.

Strength

Positive Attitude: To progress positively under all circumstances with conviction and maturity in approach.
Adaptability & Flexibility: To adapt accordingly under the application of adverse or pressure conditions without deviating from critical to quality concerns.
Enthusiasm for Learning: Endlessly strives to learn through different activities.

Other Achiements:

- Ranked **First** in Pune University in B.Sc (Statistics) in Jun 2002.
- Complete **NET certification** in 2005.