## **SEEMA PATIL**

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## **OBJECTIVE**

Seeking an assignment to utilize my skills and abilities that offers professional growth while being resourceful in the field of Machine Learning/Data Science/Business Analytics

### SUMMARY OF SKILLS

Competent and result oriented professional with experience of over 7 years across teaching (Electronics & Telecommunication Engineering), designing curriculum guidelines, formulating & implementing teaching strategies to effectively engage all students and develop the best learning environment.

- Skilled in contributing to data analytics and business intelligence strategy with ability to handle analytical projects designed to understand key business behaviors that drive customer acquisition, retention and engagement.
- Understanding of business data analysis including gathering & defining business requirements while managing the risks to improve business processes.
- Conceptually strong with an innovative and analytical approach with an eye for detail. Enriched with the ability to learn new concepts & technique within a short span of time.
- Ability to deliver Data Analytics services across business sectors. Skilled in discovering new opportunities to optimize the business through analytics and statistical techniques.

## **Technical Skills (Data Science and Machine Learning)**

- Statistical Methods Missing and Outliers, Univariate Analysis, Bi-Variate Analysis, Sampling, Bootstrap, Cross-Validation, Hypothesis Testing
- **Predictive Analytics Regression, Machine Learning**
- Data Engineering or Feature Engineering e.g. PCA, Dimensionality Reduction
- **Classification** Decision Trees and others.
- **NLP** Text Analytics
- **Unsupervised Learning** Clustering
- Deep Learning Neural Network, Convolutional Neural Network (CNN), Advance **Computer Vision**
- Tools Python
- Libraries Pandas, Numpy, Scipy, TensorFlow, Keras, Matplotlib, seaborn

## PROFESSIONAL EXPERIENCE

## CITIS EDUCON PVT LTD.

Oct. 20 - till Date

- **Senior Faculty**
- Online Session on Data Analysis using Advanced Excel, Python Programming, Artificial intelligence, Machine Learning.
- Delivering Content for videos on Artificial intelligence and Machine Learning.
- Directing ICT teachers for Artificial intelligence and Machine Learning Program at school

### **BSE (Bombay Stock Exchange) INSTITUTE LIMITED Visiting Faculty**

15th April-15th May

Weekend online session on Data Science using Python.

### **GREAT LEARNING ACADEMY AIML Capstone Project - Mentor**

**April 21 - Aug 21** 

Guiding Industry Project to PGP- AIML Students of Great Lakes, Hyderabad

#### NUTAN MAHARASHTRA INST. OF ENGINEERING AND TECHNOLOGY Jul'10 - Apr'17 **Assistant Professor**

Proactively explored and implemented innovative teaching techniques to accelerate learning process among students.

### **EDUCATION**

Post Graduate Program in **Artificial Intelligence and Machine Learning, 2020** 

**Great Lakes Executive Learning** Institute, Pune

**Master of Engineering** (Communication Network), 2014

Dr. D.Y.Patil Institute of Engineering & Technology, Pimpri, Pune (Pune University), **CGPA - 7.82** 

**Bachelor of Engineering** (Electronics Engineering) 2006

Shree Shivaji Vidya Prasarak Sanstha (SSVPS) College of Engineering, Dhule (North Maharashtra University), 70.14%

### Certification

The Business Intelligence **Analyst Course 2020, Udemy** Certification

### **SKILLS**

Business Analytic & Data Mining

Data Analysis & Processing

**Analytical Skills** 

Strong Interpersonal Skills

Attention to Detail & Accuracy

Team Player

Methodological & Organized

Work well under pressure

**Presentation Skills** 

Self-Motivated

- Implemented strategic lesson planning in Electronics & Telecommunication Engineering, monitored progress and performance against semester targets.
- Delivered engaging lectures, seminars, and tutorials and increased class productivity.
- Worked closely with other Professors and Head of the departments to define objectives, guide research, and manage deadlines for the undergraduate curriculum.
- **Subjects Handled (Undergraduate Students):-** Solid State Devices and Circuits, Communication Theory, Feedback Control System, System Programming and Operating System, Microprocessor and Interfacing Techniques (SE Comp), Digital Signal Processing (TE Comp), Computer Organization, Data Structure & Algorithms and Object Oriented Programming.

# NISHKO INSTRUMENTS PVT. LTD., BHOSARI MIDC, CHINCHWAD Testing Engineer

Mar'08 - Sept'08

• Responsible for testing of Process indicator, flow indicator and process scanner required for process-based industries. Testing consisted of initial & final testing based on the predesigned testing parameters.

### **Project Undertaken**

## Title Skills Synopsis

### **Capstone Projects**

Classification, Logistic Regression, RNN with LSTM.

### MACHINE LEARNING MODEL FOR TREND IN BITCOIN MOMENTS

Data set consists of various features relating to the Bitcoin price over the course of ten years, recorded daily. By preprocessing the dataset, applied some data mining techniques to add predictor variables. Then in second step of our research (using the available information), we have predicted the sign of the daily price change with highest possible accuracy.

### **Proposed Solution**

- Obtaining, Cleaning, Labelling and Normalizing the Historical BTC Prices.
- Building classical Machine Learning models.
- Building an RNN with LSTM.
- Training classical, RNN and Saving the Trained Model.
- Comparing all models.
- Year on year, analyze each year's profit and loss.
- Present total profit you made and get ROI.

## Responsibilities

The evaluation of classification problem will be confusion matrix and classification report of the model.

## **Artificial Intelligence and Machine Learning Projects**

Title Course Skills and Tools Synopsis

## **Identifying Potential Customers for Loans**

Supervised Learning Classification, Logistic Regression, KNN, Naive Bayes

Identified potential loan customers for Thera Bank using classification techniques. Compared models built with Logistic Regression, Naive Bayes, and KNN algorithm in order to select the best performing

one.

Title Course Skills and Tools

**Synopsis** 

### **Product Recommendation Systems**

Recommendation Systems

Collaborative Filtering, Recommender Systems, Python

This project involved building recommendation systems for Amazon products. A popularity-based model and a collaborative Filtering model were used and evaluated to recommend top-10 products for

a user.

Title Course Skills and Tools Synopsis

### **Face Detection**

**Advanced Computer Vision** 

Computer Vision, CNN, Transfer Learning, Object detection

Recognize, identify and classify faces within images using CNN and image recognition algorithms. In this hands-on project, the goal is to build a face recognition system, which includes building a face detector to locate the position of a face in an image and a face identification model to recognize whose face it is by matching it to the existing database of faces.

Date of Birth: 21st Mar, 1985

Languages Known: English, Hindi and Marathi

**References:** Available on Request