Swapnil Ramesh Shinde
ME (Comp), PhD Pursuing (Symbiosis, Pune)

Mobile: +91-7710004576
Email: swapnil.rshinde87@gmail.com

PROFESSIONAL SUMMARY

- Industry Experience of 2 yrs 7 months, worked on AI/ML projects with hands-on experience in Py spark.
- Knowledge of Python Programming and Data Visualization using different libraries like MATPLOTLIB, SEABORN and ML libraries like Numpy, Pandas, Sklearn etc.
- Having 8 years of Research Experience in various domains such as Machine Learning, Image Processing, Computer Vision and Deep learning.
- Strong Knowledge of Python, Pyspark, MATLAB Programming, C, C++, Java, HTML.
- Having 12+ years of Teaching Experience and Handled subjects like Infrastructure security/Advanced Internet Programming/User Interface Design/ Object Oriented Programming Methodology(C++ and Java)/ Intelligent System/C-Programming/Structured Programming Approach /Information and Network Security/Computer Graphics and Virtual Reality/System and Web Security/Computer Simulation and Modeling/ Game Architecture and Programming.
- Completed Training on Red Hat Certified System Administration (RHCSA) as an Educator for RHEL8 through Edu-skills partnership program. Conducted Training for 2 batches of RHCSA on RHEL8.
- Google Scholar Profile - https://scholar.google.com/citations?user=S1q4ST0AAAAJ&hl=en&authuser=1
- Linkedin Profile - https://www.linkedin.com/in/swapnil-shinde-013b721b9/

CERTIFICATION SUMMARY

- Completed Coursera Certification on "Machine Learning for All" by University of London on 24/09/2020.
- Completed Coursera Certification on "Introduction to Applied Machine Learning" by AMII on 19/08/2020.
- Completed Certification on "FUNDAMENTALS OF DEEP LEARNING FOR COMPUTER VISION" by NVDIA Deep Learning Institute on 06/07/2020.
- Completed Certification on "FUNDAMENTALS OF DEEP LEARNING FOR MULTIPLE DATA TYPES" by NVDIA Deep Learning Institute on 07/07/2020.
- Completed Coursera Certification on "Cybersecurity roles processes and Operating system security" by IBM on 29/06/2020.
- Completed Coursera Certification on "Data Processing and Feature Engineering with MATLAB" by Mathworks on 27/06/2020.
- Completed EDX course on "Python Basics for Data Science" on 20/06/2020.
- Completed Coursera Certification on Project titled "Facial Expression Recognition with Keras" by Rhyme on 25/05/2020.
- Completed Coursera Certification on Project titled "Image Classification with CNNs using Keras" by Rhyme on 25/05/2020.

PROJECTS

- ### Industry Projects –
- **Alert Prioritization recommendations:**
  This project involves building an automated pipeline that takes alerts data for the customers as input for the past years and train a light gbm model to generate predictions. The alerts to be sent to customers are assigned a priority order and based on the priority the highest value alert is recommended per customer per week, apart from this the predicted value is used to cap the

alerts to max 6 alerts per region. A combination of priority and prediction parameters are used to generate the recommendation output.

- **AI Orchestrator:**
  The project objective is to automate and build the AI pipeline end to end, perform code conversion from python pandas to spark with addition of new enhancements and improving the efficiency of prediction and overall execution time on the Azure data bricks platform. This involves training simple LSTM models defined for different segment of customers.

- **Sentiment Analysis of Reviews:**
  Implemented Sentiment Analysis on restaurant reviews from the customers and generated insights in terms of various KPI's.

- **Web Scraping and Sentiment Analysis:**
  Extracted product data by deploying web scraper, performed cleaning of data to generate insights in terms of KPI's with respect to product prices, competitor analysis etc.
  Extracted reviews for top 20 products and presented insights based on KPI's to understand the customer behavior and market competition.

- **Market Mix Modelling:**
  Completed Training on Market Mix Modelling and performed a POC on the same for analyzing the significant market activity and its ROI generation.

- **Automation for Report and presentation Generation:**
  Performed End to End automation from extraction of data from SQL Database to generation of reports using python and its advanced packages. Generated PPT presentation using the data from the reports and automated the Email for sending of report and ppt to the client.

- **Academic/Research Projects -**
- **Face liveness Detection using Pre-trained and Fine tuned VGG-16 Model, Resnet50 for 3D Mask Attacks detection.**
  Key Skills – Image Processing, Data pre-processing, Deep Learning.
  Implemented in Python using Python libraries such as Numpy, Pandas, Sklearn, Opencv, Keras, Matplotlib etc.

- **Sclera Based Enhanced Authentication using Statistical Features and Machine Learning Classifiers**
  Key Skills/ Techniques used: - Image Processing, Feature Extraction, and Supervised Machine learning Algorithms.
  Implemented on MATLAB R2016A using toolbox such as Classification Learner App, Image processing and Statistical Machine learning Toolbox.

- **Vector Quantization and Machine Learning Algorithms based Face Liveness Detection.**
  Key Skills/ Techniques used: - Image Processing, Feature Extraction, and Supervised Machine learning Algorithms.
  Implemented on MATLAB R2016A using toolbox such as Classification Learner App , Image processing and Statistical and Machine learning Toolbox.

- **Gender Classification from Face images using LBG Vector Quantization with Data mining Algorithms**
  Key Skills/ Techniques used: - Image Processing, Feature Extraction, and Supervised Machine learning Algorithms.

Implemented on MATLAB R2016A using toolbox such as Classification Learner App , Image processing and Statistical and Machine learning Toolbox.

- **Gender Classification with KNN by Extraction of Haar Wavelet Features from Canny Shape Fingerprints**
Key Skills/ Techniques used: - Image Processing, Feature Extraction, and Supervised Machine learning Algorithms.
Implemented on MATLAB R2016A using toolbox such as Wavelet toolbox , Image processing and Statistical Machine learning Toolbox.

- **Marathi Handwritten Barakhadi Recognition using Vector Quantization with Edge Detection Masks**
Key Skills/ Techniques used: - Image Processing, Feature Extraction, and Supervised Machine learning Algorithms.
Implemented on MATLAB R2013A using toolbox such as Image Acquisition, Image processing and Statistical Machine learning Toolbox.

ACHIEVEMENTS

- Co-authored Book Titled "Infrastructure Security", Subject of Semester VII (IT) Mumbai University.
- Presented and published 23 research papers in International/National IEEE and Springer Conferences and Journals(Scopus indexed) in various domains.
- Delivered Minor Research Project to University of Mumbai on Enhanced Authentication using Sclera Vein and Machine Learning.
- Registered two copyrights at Indian Copyright office in the domain of ML and Biometrics security.

TECHNICAL SKILLS

- PROGRAMMING LANGUAGES   : PYTHON ,C, C++, JAVA, HTML,PYSPARK
- DATABASE   : SQL, MYSQL
- TOOLS   : MATLAB 2016, PROLOG
- PYTHON LIBRARIES KNOWN : Numpy, Pandas, Sklearn, Sci-kit, Matplotlib, Keras ,Tensorflow, Selenium, Beautiful Siup, Python-pptx

WORK EXPERIENCE

QUATION SOLUTIONS PVT. LTD , BANGALORE – FROM AUG 2023 TO AUG 2024

CONVERGYTICS SOLUTIONS PVT. LTD, BANGALORE – FROM JAN 2022 TO JULY 2023

RAMRAO ADIK INSTITUTE OF TECHNOLOGY, NERUL – FROM JULY 2010 – DEC 2021

GAURISHANKAR POLYTECHNIC, SATARA – AUGUST 2009 TO JUNE 2010.

ACADEMICS QUALIFICATION

- Ph.D Pursuing from Symbiosis International University (2019-till date) in the Area of Biometric security enhancement using ML and DL methods.
- Master of Engineering – Computer Engineering (2011-2013) from Ramrao Adik institute of Technology, Mumbai affiliated to Mumbai University with an aggregate of 71 %.
- Bachelor of Engineering – Information Technology (2005 – 2009) from Ramrao Adik institute of Technology, Mumbai affiliated to Mumbai University with an aggregate of 64.24%.
- HSC (2005) from Yashwantrao Chavan Institute of Science, Satara with 80.17%.
- SSC (2003) from Mona School, Satara with 82.66 %.

PROFESSIONAL REFERENCES

1. Dr Sudeep D. Thepade , Professor , Ph.D Cordinator, PG Co-ordinator, Dean Quality Assurance, Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Pune.
2. Dr. Dipti Jadhav, Associate Professor , Department of Information Technology, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai.
3. Dr. Nilesh Marathe , Associate Professor , Shri Vile Parle Kelavani Mandals Dwarkadas J. Sanghvi College of Engineering, Vile Parle, Mumbai

PERSONAL DETAILS

- Full Name   : Swapnil Ramesh Shinde
- Phone No.   : 7710004576
- Email Id   : swapnil.rshinde87@gmail.com

Signature