

Shounak Desai

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EDUCATION

Rochester Institute of Technology (Graduating May, 2024)

Rochester, NY

Master of Science in Computer Science (Specialization: Artificial Intelligence)

Aug 2022 – Present

Key Courses: Advanced OOPs, Artificial Intelligence, Big Data, Data Structures, Algorithms, Machine Learning, Computer Vision.

Pune Institute of Computer Technology (PICT)

Pune, India

Bachelor of Engineering in Electronics and Telecommunications

June 2016 – May 2020

TECHNICAL SKILLS

Languages: Python, Java, C++, C, R, Shell scripting

DBMS: SQL, NoSQL, Postgres, MongoDB, Apache Spark.

Tools and Technologies: Google Cloud Platform (GCP), Apache Airflow, Docker, SAP CPI, SAP PI, Flask, Git, Github, Keras, Tensorflow, Scikit-Learn, Numpy, Pandas, Matplotlib, Neural Networks, CNN, Autoencoders, GANs, OpenCV, NLP.

EXPERIENCE

Vodafone Intelligent Solutions (VOIS) - Vodafone Group

Aug 2020 – July 2022

Pune, India

• Software Developer (*Python, Machine Learning, GCP*)

- * Recruited as a member of the first Data Science team in the ERP department at VOIS, Pune, played a crucial role in successfully managing and executing a variety of niche data science and machine learning automation projects for Vodafone Clients.
- * Python expert for various projects throughout the department, utilizing my skills to automate data formatting using Python scripts and regular expressions, and facilitate successful integration of SAP systems.
- * Played a key role as an in-house GCP expert during the department's migration from SAP Cloud to GCP Cloud and suggested cost-effective solutions and optimize the department's usage of GCP services.
- * My contributions were recognized with a promotion to Senior Developer within one year, and was given the opportunity to lead the data scientist team for ERP dept. at VOIS Pune during my final year at the company.

PROJECTS

Sarbanes-Oxley (SOX) Controls Automation (Associated with VOIS)

Oct 2021

- Led the back-end team of 5 engineers for development of an automation system in Python to circumvent periodic manual interventions of Vodafone Employees working on SOX Compliances.
- Utilized SMOTE analysis to address imbalanced data, as the available dataset was limited, and developed various NLP models, using classic ML Algos like SVM, Random Forest, ANN, and XGBoost, for automation. Employed XGBoost in the automation system due to its superior performance, resulting in an accuracy of 88%
- Deployed the NLP model on GCP Cloud Composer using Directed Acyclic Graphs (DAGs) to schedule and monitor this automation.

Cognitive Contract Creation (CCC) (Associated with VOIS)

Dec 2020

- Developed a Flask API that read input Business .pdf files and generated output .csv files with relevant information for Vodafone Clients.
- Worked on Optical Character Recognition using Tesseract library, flask for the web app and used Docker to deploy on the SAP Cloud Platform.
- Clients were benefited from not reading multiple .pdf contracts since required specific data was easily available in the output .csv files at their end. Successfully delivered this project for Spain, Germany, South Africa, Italy markets.

Generating realistic faces using DCGAN (Associated with PICT) [Github](#)

April 2020

- Built a neural network model capable of generating Realistic Human Faces from any random Noise image.
- Used Deep Convolutional Generative Adversarial Networks on 10 GB of Input Image data for efficient results.
- Reduced the adversarial loss of the GAN model by 50% and generated fake human faces with an average processing system.

Face Expression Recognition (Associated with PICT). [Github](#)

Dec 2019

- Created a Flask Web application that detects Human faces in user input Video files, recognizes and displays the Facial Expression type at any given instant in any video.
- Leveraged OpenCV, CNN, Flask web framework, and Docker to containerize and enable to deploy the web-app virtually on all Cloud platforms. (Accuracy = 75%)

EXTRA-CURRICULAR ACTIVITIES

- Japanese Language Proficiency Test - N5 and N4 level.
- Head Organizer for "RoboLIGA-Credenz 18'", Annual technical event of PICT IEEE students branch.