**Purva**



**Data Engineer at Shyena Tech Yarns Pvt.Ltd**

**SUMMARY**

Currently working at Shyena Tech Yarns. Pvt. Ltd., having 2.5 years of working experience in technologies like Python, cloud computing(AWS, Azure), Flask, PostgreSQL. I have good knowledge of data processing with Python pandas and prepare dataset for to generate reports and charts. I have also worked on a few Machine learning and Deep learning projects.

|  |  |
| --- | --- |
|  | **TECHNICAL SKILLS** |
| **Programming Languages** | **Python, SQL** |
| **Data Analysis** | **Pandas, Matploatlib, Numpy** |
| **ML Toolbox** | **Sklearn, SciPy, Tensorflow** |
| **Cloud Platforms** | **AWS, Azure** |
| **Agile Methodology** | **JIRA** |
| **Version Control Tool** | **GITHUB** |

|  |  |
| --- | --- |
|  | **PROFESSIONAL EXPERIENCE** |
|  |  |
| **Data Engineer** | Nov '18 - Present |
| **Shyena Tech Yarns Pvt. Ltd.** | Pune |
| **Client :- Honeywell Automation India Ltd.** | **Jul 2019 - Present** |

**1. Project 1:- To extract Data related to equipment (names, numbers, unique tag identifiers) from PNID diagrams**

Detected symbols of Equipment and Instruments present in the Piping and Instrumentation (PNID) Diagram using **Tensorflow's**



**Object detection API and FRCNN deep learning model**

Extract Text Data related to these equipment (names, numbers, unique tag identifiers) from pdf files using **Tesseract** and saved it in Excel files using **openpyxl** Python library. This improved proficiency of the task by 80%



1. **Project 2:- Designed a Data pipeline to extract timeseries data from a historized database, perform analytical operations and load it back into the Database.**

Designed a Data pipeline in Python to automate the process of extracting timeseries data from historized database in the form of JSON file,



Used **Pandas** library in Python to perform calculations and analyzing stability of plant . Writing results back into database.



1. Provided support and development of existing tools build in **Excel and VBA** which were used in existing data pipelines and data analysis.

**Client** :- **Indicus Software**. **April '19 - Jun '19**

Worked on a project which involved migration of sensor & alarm data in JSON format stored in **AWS S3**. Loaded this data in **AWS** **Elasticsearch using Logstash scripts**.



Implemented performance optimization to migrate data at the rate of **3 minutes per GB** on **aws t2.medium instance**. The client



team took 1 hour to migrate 1 GB data

Developed **python scripts** for Data cleansing and validation.



**Client :- A platform offering from Shyena Tech Yarns (Piloted for 2 clients)** **Nov '18 - March '19**

Used **time series database** to store IOT event data. Used **Graphana charting library** to visualize it Familiar with **Tableau charting software** which was used to generate OEE dashboard.



Developed modules like Asset management, Issue and maintenance details capture modules in python web framework **Flask,** **HTML, CSS and Postgres SQL database.**



**CERTIFICATIONS/TRAINING**

**Microsoft Azure Fundamentals** | **Microsoft** | **August 2020**

Earning of the Azure Fundamentals certification demonstrates foundational level knowledge of cloud services and how those services

are provided with Microsoft Azure.

<https://www.credly.com/badges/0262efec-3b61-4a2e-b72a-30cf663e3acb/public_url>



**PROJECTS**

**DIGITS AND CHARACTER RECOGNITION using Machine Learning**

Performed different pre-processing methods like noise removal, resizing, thresholding on the images taken by camera to extract its features using Open CV module in python.



Collected suitable dataset of characters and digits and compare it with the given features of image Implemented SVM and CNN machine learning Algorithms and compared their Accuracy on same set of data



**EDUCATION**

|  |  |
| --- | --- |
| **Bachelor of Engineering in Electronics and Telecommunication** | Aug '14 - Jun '18 |
| **Pune Institute of Computer Technology** | Pune,Maharashtra |

|  |  |
| --- | --- |
| **CGPA :- 6.7/10** |  |
| **Class XII - 87.6% Kendriya Vidyalaya D.I.A.T. Pune** | **March'13 - Mar'2014** |
| **Class X - 86.5% Kendriya Vidyalaya D.I.A.T. Pune** | **March'11 - Mar'2012** |
|  |  |