Prasad Nagineni

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**WORK EXPERIENCE**

**Process Automation Engineer** November 2020- Present

System engineer Tata Consultancy Services

* Working in agile methodology.
* Perform statistical analysis to find the new automation possibilities.
* Collaborate with stakeholders and resolver team for requirement gathering.
* Design, develop, test, and implement end to end process automations.
* Technical documentation of automation with requirements, technical information, and test cases.
* Reporting monthly automation metrics (Automation vs Non automated) and present savings, benefits with management.
* Technology Stack Used: PowerShell, Python, SQL
* Tools Used: System Center Orchestrator, Excel, Power BI, Visual Studio Code
* Knowledge On: Active Directory, Microsoft Azure, Office 365, Microsoft Intune, SCOM, SCCM, SolarWinds, ITSM, ServiceNow.

**PROJECTS**

**Machine Learning Data Pipeline** June 2022 – July 2022

* Data pipeline to retrieve streaming data from Kafka and upload data in MongoDB.
* Tools Used: MongoDB, Visual Studio Code, Git & GitHub, Kafka
* Technology stack used: Python

**Sensor Fault Detection: An Application of Machine Learning** August 2022- October 2022

* Developed a solution to classify whether the data generated by sensor is really fault or not. This solution model used to reduce the unnecessary repairs in Air Pressure System.
* Data is collected the MongoDB.
* Applied data preprocessing steps to handle null value columns and handled imbalanced data in target using SMOKE technique for target column. Also scaled data using Robust Scalar technique.
* Trained data using different classification algorithms XG Boost Classifier gives 98 percent of train accuracy and 96 percent of test accuracy.
* Model deployed in AWS environment using Fast API. Infrastructure Used – Aws S3, Aws ECR, AWS E2 Instance, MongoDB, GitHub Actions.
* CI/CD pipeline using GitHub Actions and YAML.
* Technology Stack used: Python, Fast API, Machine Learning, Docker, MongoDB, Git and GitHub.

**EDUCATION**

**Bachelor of Technology *Computer Science*** July. 2016 – May 2020

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Indian Institute of Technology Anantapur Anantapur, Andhra Pradesh

**Twelfth *Sri Chaitanya Junior College*** June 2014 – April 2016

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Narayana junior college Nellore, Andhra Pradesh

**Tenth *SSC*** June 2013 – May 2014

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Municipal Corporation High School Nellore, Andhra Pradesh

**HONORS AND AWARDS**

**Contextual Masters** August 2022

Appreciation in Tata Consultancy Services

**On the Stop Award** August 2021

Awards for continuous improvements and deliveries in Tata Consultancy Services.

**COMMUNITY INVOLVEMENT**

**National Cadet Corps (NCC)** July 2012 – May 2014

Grade A in Nation Cadet Corps

**Blood Donor** July 2014

Donated blood 2 times to Red Cross Society

**TECHNICAL SKILLS**

**Area of Interest:** Data Science and Machine Learning

**Mathematics in ML &DL:** Algebra, Statistics, Probability, Calculus, Matrices

**Python Packages and Frameworks:** Scikit-Learn, TensorFlow, Keras, NumPy, Pandas, SciPy, Beautiful Soap

**Software Tools:** Git & GitHub, Docker, Circle CI,Visual studio Code,Power BI, Microsoft Excel

**Web Development:** HTML, CSS, JavaScript

**Programming Languages:** Python, HTML, CSS, SQL

**Databases:** MySQL, MongoDB

**Cloud:** AWS, Azure, GCP