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

Indian Institute of Technology Anantapur   Anantapur, Andhra Pradesh

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

Narayana junior college   Nellore, Andhra Pradesh

Tenth *SSC*   June 2013 – May 2014

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