Krushi Punyamantula

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Experience Summary:

5+ years of experience in IT and industrial knowledge on Machine Learning (ML), Natural Language Processing (NLP), and Robotic Process Automation (RPA). Experience working in Agile Environment and exposure in Software Development life cycle process. Collaborated with team members for application development and discussing possible solutions for problem solving. Good experience working in Python and familiarity with Java, C#, C++.

Education:

IIT Hyderabad   2015
Bachelor of Technology in Electrical Engineering

Technical Expertise:
- Languages : Python, Core Java, C++, C#
- Development Tools: Anaconda, Jupyter Notebook, Visual Studio, Eclipse
- Packages/Libraries : sklearn, nltk, rasa, numpy, pandas, seaborn, selenium, keras
- Web Technologies : Flask, Django, JavaScript, HTML
- Databases: PostgreSQL, MS SQL.

Work Experience: 5.6Yrs
Company: TCS
Robotics and Cognitive Systems
Date of joining: 03-08-2015
Designation: System Engineer
Role: Developer

Key Deliveries:

Key deliveries for a Swiss based Banking project
Automatic Mail Monitoring System: Language: Python
Tools used: sklearn, flask, nltk, re
Developed a continuous mail monitoring solution for support teams using ML classifiers. Solution integrates with ServiceNow for logging tickets, on actionable items. Mails processed by solution can be viewed from a dashboard, developed using flask.

Credit Risk Analysis using News Articles: Language: python
Tools used: Rasa NLU, nltk, sklearn, Django
Extracted subjective information from news articles, and assigned a score of negativity for them based on the intent and entities predicted. It is made as a service by running a Django server.

Chatbot (Retail Domain Specific) Language: Python, Java
Tools: Skype API, Stanford Core NLP
For sending reminder messages over skype for closure of overdue RFC/INC items and also implemented a basic retail domain specific, Query system using Stanford Core NLP libraries.

Automation Suite Language: Java, C++
Tools: OpenCV, Tesseract, Rasa Core, AIML, IBM Sametime SDKs, Outlook SDK's
Worked for a process automation suite with cognitive ability, which provides solutions for process and test automation. Involved in developing workflows and processes.

TCS Robotics
Robotic Arm Inverse Kinematics
Language: C++
Developed IK Solutions for KUKA, UR5 robot for pick and place, and look-at tasks, tried in both analytical techniques and iterative solutions like Jacobian transpose and pseudo inverse methods, damped least square and selective damped least square.

Autonomous Car Language: C++ Developed a control drive algorithm for Accelerator, Brake of car, by collecting data from various sensors like GPS, IMU, OBD.

DECLARATION
I hereby declare that the above mentioned particulars are true and correct to the best of my knowledge
Dt. 22-03-2021   P. Krushi