D Anantha Krishnan

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Career Objective — Motivated Data Scientist with experience in using Python and automation tools to enhance operational efficiency and data-driven workflows. Graduated with a B.Tech in Computer Science and Medical Engineering from Sri Ramachandra Faculty of Engineering and Technology (2020-2024). Passionate about leveraging AI/ML technologies to drive innovation and problem-solving. Eager to grow in a developer role, contributing to impactful projects and optimizing processes in a dynamic and innovative environment.

Skills

Frameworks & Tools: Flask,Selenium, VBScript, SAP, Power BI
Automation: RPA, SAP Automation
Testing: Pytest
Version Control: GitHub

Languages: Python, SQL, Python-AI/ML, Deep Learning,Javascript
Libraries: Keras,NumPy, Pandas, Matplotlib
Others: REST APIs, HTTPx, Postman

Industry Experience

Beez innovation Labs **Feb 2024 – Sep 2024**
Software Engineer Trainee

Automation Development:

- Developed and implemented RPA solutions for SAP automation processes, improving operational efficiency.
- Automated web scraping tasks using Web Scrapy to extract critical data for various projects.
- Integrated Python-based automation with the Document Management System (DMS) using httpx.
- Contributed to the development of a Python automation bot library.

Cross-Functional Collaboration:

- Collaborated with cross-functional teams to design and deliver scalable automation solutions tailored to business needs.

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Education

Sri Ramachandra Faculty of Engineering and Technology (2020-2024)
B Tech -Computer Science and Medical Engineering
CGPA: 8.1

St. John's Senior Secondary School (CBSE)

- SSLC (2017-2018) - 7.2 CGPA
- HSC (2019-2020) - 7.6 CGPA

Besant Technology - Python Data Science

Projects

Cancer Cell Detection - Deep Learning **Dec 2022 - Feb 2023**

- The proposed model utilizes U-Net for nucleus image segmentation. Following segmentation, the model performs binary classification on the images. Finally, it deploys the results via a Streamlit application.
  - **Key Learnings:** Gained hands-on experience in deep learning model development using 'TensorFlow' and 'Keras'. Developed expertise in implementing U-Net architecture for image segmentation, optimizing the model with custom loss functions, and enhancing image processing skills with libraries like 'OpenCV'. Learned how to build and deploy a user-friendly application using 'Streamlit' for real-time model inference.

Hand Sign Detection - Deep Learning **May 2023 - Jul 2023**

- In this project, I developed a hand sign detection system aimed at recognizing and classifying various hand gestures. The system leverages a Convolutional Neural Network (CNN) built with 'Keras' for image classification, which was trained on a dataset of hand gesture images. The project involved multiple stages, including data collection, image preprocessing, and model training. Data augmentation techniques such as rotation, zoom, and flip were applied to enhance the model's robustness and accuracy.
  - **Key Learnings:** Deepened understanding of deep learning concepts, particularly in designing and training CNN models using 'Keras' and 'TensorFlow'. Gained hands-on experience in working with image datasets, learning effective preprocessing techniques such as normalization, resizing,

Telecom Customer Churn Prediction - Machine Learning **Aug 2023 - Oct 2023**

- Developed a model to predict customer churn for a telecom company using machine learning algorithms such as Logistic Regression, SVM, Random Forest, KNN, and Naive Bayes. After comparing performance metrics like accuracy and F1-score, Random Forest was identified as the best-performing model for predicting churn.
  - **Key Learnings:** Gained practical experience in applying multiple classification algorithms and evaluating them based on performance metrics. Enhanced skills in data preprocessing, model optimization, and handling class imbalance. Improved knowledge of hyperparameter tuning and cross-validation to boost model performance.

ICET Data Analyst **Mar 2023 - Apr 2023**

- I worked on analyzing chat files exported from WhatsApp, focusing on conversations related to the IPL (Indian Premier League). Using Python and its libraries, I performed sentiment analysis to extract meaningful insights from the chats. The findings were then visualized and presented through Power BI for effective reporting and interpretation.
  - **Key Learnings:** Enhanced skills in data analysis using Python, specifically with ‘pandas‘ for data manipulation, ‘nltk‘ for text processing, and ‘scikit-learn‘ for sentiment analysis. Gained proficiency in handling unstructured data, applying Natural Language Processing (NLP) techniques, and integrating insights into dynamic dashboards using ‘Power BI‘ for comprehensive data visualization.

Beez labs **Feb 2024 - Sep 2024**

- SOX Control Automation - Bacardi
  The project aims to automate key SOX control processes, specifically targeting SAP transactions and reporting to ensure compliance and efficiency.
- **IT.CM.6 SE16 Generic Bots:** Created generic bots to automate a range of tasks related to data extraction, transformation, and validation across SAP tables, optimizing the audit trail process and improving reporting accuracy.
  - **Key Learnings:** Developed expertise in building reusable bot functions using Python classes and OOP principles. Enhanced skills in managing SAP data transactions through dynamic query generation, multi-threading for parallel data processing, and implementing advanced logging with ‘logging‘ module for audit trail accuracy.
- **Selenium Web Automation:** Developed automation scripts using Selenium for various websites, including DutyFree and SysAid, to streamline repetitive tasks, such as data extraction, form submissions, and report generation, improving overall efficiency and accuracy in web-based processes.
  - **Key Learnings:** Gained hands-on experience in dynamic web scraping using Selenium with Python. Acquired skills in handling AJAX elements, managing complex DOM structures, using explicit and implicit waits, and optimizing automation flows with XPath and CSS Selectors.
- **Excel Automation:** Automated data extraction, manipulation, and reporting tasks in Excel using Python libraries, streamlining workflows such as financial data processing, report generation, and data validation, reducing manual effort and minimizing errors.
  - **Key Learnings:** Advanced knowledge of ‘pandas‘, ‘openpyxl‘, and ‘xlwings‘ for Excel automation. Developed techniques for handling large datasets with pivot tables, VBA macros integration, and automated data validation processes using conditional formatting and complex formulas.

THE SPARK FOUNDATION Web Development **Apr 2021 - June 2021**

- I developed a basic banking system utilizing HTML, CSS, and Python. The system manages account holder details, tracks transactions, and provides an intuitive interface for users. It efficiently handles core banking functionalities, ensuring smooth interaction between the front-end and back-end.
  - **Key Learnings:** Acquired skills in front-end development using HTML and CSS for building responsive web interfaces. Implemented back-end logic with Python, focusing on data handling and storage using ‘SQLite‘ for database management. Learned to create a seamless integration between the user interface and the server-side logic, enhancing knowledge in full-stack web development.