santokalayil@gmail.com
+91 8891960880
Singasandra, Electronic City, Bengaluru
www.santokalayil.com

SANTO K THOMAS

Data Engineer - Python/Golang Developer

SUMMARY

Experienced Python developer specializing in data engineering and science, delivering data-driven insights and solutions through API development and library creation. Proficient in web technologies like Flask, FastAPI, and Streamlit, skilled in image processing using computer vision, and experienced in Python packaging and library creation.

- Github: https://github.com/santokalayil
- LinkedIn: https://www.linkedin.com/in/santokalayil
- Kaggle: https://www.kaggle.com/santokalayil

PROJECTS

- HAWK: Fraud Detection Engine using Social Media Analysis done as part of Hackathon conducted by RBI
- Capstone Project: Cancer (Biopsy) prediction with 95.7 testing accuracy on patient survey data. Tested multiple Classification methods and selected ML models were based on Logistic Regression Gradient Boost Classifier.
- Employee Attrition & Performance Analytics: Achieved 60% faster detection of attributes that determine and influence employee performance and attrition so that the HR department can introduce new cost-effective strategies to improve productivity and performance
- Automated Directory Project: Developed a directory of community members by automating processes such as data collection, database storage, data retrieval and analytics, rearranging data for various sections of the book, data correction, Image resizing, full PDF generation etc. Technologies and Tools used are Google Forms, Google Sheet API, Python (Pandas, Numpy, Flask, Matplotlib, Reportlab, Pillow, OpenCV, Sqlite etc).

KEY SKILLS

- Programming - Python (Advanced), Rust (Basic), Golang(Basic).
- Data Engineering, Analysis & Visualization: Pandas, Polars, Numpy, Matplotlib, Seaborn, Plotly, Plotly Dash, Tableu
- Web App and API Development using streamlit, flask, Fast API, Django(basic), HTML5, CSS, Bootstrap 4, Tailwind CSS
- Machine Learning: Supervised & Unsupervised Learning (Regression, Classification, PCA, Clustering.)
- Interpreting ML Results using LIME & SHAP interpretation techniques
- Database: MySQL, Postgres, Sqlite, MongoDB
- GCP-Python automation for data engineering projects - using Google Docs, Google Drive, Google Sheets APIs, Firebase etc.
- Linux (Bash & Python Scripting), Windows. Command Line Skills (Linux terminal, Windows Command Prompt and Powershell), Git, GitHub, Gitlab
- Test Automation using Pytest, Selenium etc.Data Collection using Web-scraping and Web-automation tools like Beautiful Soup, Selenium, Requests, PyAutoGUI
- Coordinate, communicate and provide technical support to other functional groups relating to web applications.

PROFESSIONAL SUMMARY

- Associate Data Scientist at Ezetap by Razorpay (September 2022 - Present Day). Developed and implemented multiple data engineering pipelines and user-friendly interfaces using Streamlit. Contributed to the creation of a comprehensive testing framework and provided guidance to ensure code adhered to PEP-8 standards. Utilized OpenCV skills in various projects, resulting in successful completion of key initiatives. Created a JSON offer constructor platform that helped the company increase business from different brands, reducing time required to send offers to live from one week to 7-8 minutes and surpassing a rival company's one-day turnaround. Demonstrated ability to drive positive results and add value to the organization."
- Consultant Data Scientist at Ezetap Payment Solutions (November 2021 - August 2022): Worked on Churn Analysis & Prediction project (getting data from Amazon Redshift using SQL (via MODE), processing, cleaning and verifying the integrity of the data, getting features out of data, selecting features, building, optimizing ML models, finding out features that cause churn and suggest measures to reduce churn
- Freelance: Data Collection and Automation, Analytics and Directory DTP Book Generation for Hennur MCC, Bangalore
- Website Developer & Administrator at Sacred Heart Matriculation School, Padi, Chennai (until 2019)
- Freelance: Web Developer & Administrator for Diocese of Pathanamthitta, Carmal Central School, Carmala, Pathanamthitta, Kerala

EDUCATION

Course	Institution	Year	Remarks
Postgraduate Programme in Data Science and Engineering	Great Lakes Institute of Management	2020	Certificate Link: https://verify.greatlearning.in/FFEJOUXA
B Th.	Urbaniana University, ROMA	2014	85%
B A-Philosophy	University of Kerala	2010	62%
Higher Secondary	St. Mary's Higher Secondary School, Pattom, Trivandrum	2007	82%
SSLC-10	Sacred Heart High School, Mylapra, Pathanamthitta	2004	80%

OTHER CERTIFICATIONS & ACHIEVEMENTS

- Designed and developed the core analytical engine that powered a team's success in the Global Hackathon on Fraud Detection using Social Media Analysis conducted by RBI in 2022, resulting in a runner-up finish. Demonstrated strong technical skills and expertise in creating innovative solutions to complex problems.
- ABRSM- Royal School of Music, London - Certified in Music Theory
- Author of a python package for Easier Machine Learning Workflow- published under MIT License in The Python Package Index (PyPI) Software Repository. Available via "pip install"