Tintu Thomas

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# Professional Profile

Tintu has 5.0+ years’ experience in information technology and is currently performing the role of Senior Associate Consultant at Infosys. He has more than 2 years of experience as Data Scientist and is now part of Artificial Intelligence Unit at Infosys. He has worked with one of the major utilities client in U.S for last 3 and half years with his previous company in the field of Python, DataScience, Mainframe Technologies and is now working with Automation and AI unit Infosys Limited working as AI engineer handling Internal projects and requirements so far.

# AREAS OF EXPERTISE

* Preparing high level Functional, Technical and detail design documentation based on business requirements.
* Interacted with business users to gather requirements, analyzed requirements scope and technology.
* Worked in Utilities domain supporting utilities client in their legacy transformation and innovation ideas.
* Completed training for Dataiku Core Designer Certification.
* Experience in building machine learning models for regression, classification, and clustering tasks using linear regression, logistic regression, random forest, SVM, KNN, and K-Means clustering algorithms.
* Worked in data science technology handling POC for energy demand prediction for client.
* Worked in AI based Invoice data extraction as part of internal requirements and developed a bot.
* Deployed more than 5+ projects to production in different tech stacks.
* Analyzing of Risks, Tradeoffs and Risk Mitigation strategies.
* Understanding of SDLC system development methodologies, techniques, and tools.
* Good communication skills and extensiveexperience working with clients across geographical locations
* Effective team player with team motivational and problem-solving skills.

# Corporate Experience

* Infosys Limited– From July 2022- Till Date
* Tata Consultancy Services– From Jan 2018- July 2022

# Skills

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| **Technical Skills** | |
| Data Science, AI & ML | Python, Dataiku, SQL, SK-Learn, TensorFlow & Keras, NumPy, Pandas, Matplotlib, Seaborn, OpenCV, Generative AI. |
| Languages | Python, C++ |
| GUI Tools | Jupyter, Visual Studio Code, Pycharm |
| DataScience | EDA, Modelbuilding, training and validation. |
| Databases | MySQL, PostgreSql |
| Web | HTML, CSS, Django |
| ML Algorithms | Linear, Logistic, Decision tree |
| Operating Systems | Windows, Linux |

# Achievement & Recognitions:

* Got special Initiative award for handling IT security event for the clients and got recognition in utilities domain.
* Got beyond performance award for bringing Process Improvement in the Mainframe system by reducing the time taken for verifying the deployment which has been moved from manual way to automated method using Rexx code.

**Trainings and Certifications:**

* DataScience Orientation from Coursera.
* Python for DataScience from Expertzlab training institute.
* Infosys Certified python programmer.
* Z/OS Introduction workshop from IBM.

# PROJECT DETAILS:

**Project: Infosys Invoice processing bot**

**Client: Internal/Infosys**

**Role: Senior Associate Consultant.**

* + Worked with development of Artificial Intelligence based python bot code generation for Invoice processing using LayoutLM model Hugging face transformer.
  + It’s developed as a POC for a client invoice data extraction. The requirement was to extract the billing address and shipping address from the invoice pdf document, the bot is trained for sample documents of 2 types and can fetch the details from the document correctly.
  + Accuracy of 89 percent is obtained during validation process which can be improved by training with more data samples and the prediction with unknown invoice was quite exceptional. Deployed in GIT repository.
  + Programming Language used:- Python
  + Tools and Techniques used:- AI-ML, Hugging Face transformers, OCR.
  + Skills gained:- Preparation of dataset for model training, model training and validation, testing.
  + Status:- Code creation completed.
  + Process to Improve:- Training data need to be increased (limitation is, data preparation is manual task which consume lot of time).

**Project: Microbots development**

**Client: Internal/Infosys**

**Role: Senior Associate Consultant.**

* + Worked with development of Microbots as per the business requirement
  + Programming Language used:- Python
  + Tools and Techniques used:- Infosys ICAS platform for code migration.
  + Skills gained:- Development of python bots for different requirements and uploading to ICAS platform, Generation of Botids for the requirement in ICAS platform.
  + Status:- Code creation completed.

**Project: Process Improvement Initiatives**

**Client: Major Utilities Provider in U.S**

**Company: TCS**

**Role: Senior System Engineer**

* + It's an AI-Data Science based solution for forecasting the energy demand.
  + To signup new contract with energy producers/Renewable energy producers from solar/wind sources based on the forecasting.
  + Trained an AI model with energy consumption dataset for a period.
  + Model deployed in python Django framework as part of POC and the model is undergoing fine tuning with recent data to reduce minimal error before deployment into production.
  + Programming Language used:- Python
  + Tools and Techniques used:- DataScience, Jupyter notebook.
  + Skills gained:- Preparation of dataset for model training, model training and validation, testing.
  + Status:- Model creation completed.
  + Process to Improve:- Training needs to be done for fine tuning.

**Project: Metering process conversion to python application**

**Client: Major Utilities Provider in U.S**

**Role: Senior System Engineer.**

* + The client is a major Utilities Provider in U.S.
  + An existing metering application written in .NET, code has got moved to python code.
  + For modernization practices for the client so that the debugging is quite easy for the new generation developers.
  + This will help the client to bring all system into single platform and can bring up AI-ML techniques as well to the system.
  + Programming Language used:- Python
  + Tools and Techniques used:- VS code.
  + Skills gained:- Python coding.
  + Status:- Code generation completed.

**Project: Metering and billing for solar smart customers.**

**Client: Major Utilities Provider in U.S**

**Role: System Engineer.**

* + This project mainly focuses on the billing and giving incentives for customers for a utilities client.
  + Incentives are calculated based on the smart meter reading available for a month.
  + Mainframe jobs are created to fetch the meter readings and the incentives is calculated based on some sets of rules and E-bill is generated and shared with the customers with the incentives so that they can use it for reduction in normal consumption usage bill.
  + Programming Language used:- Mainframe, Cobol, JCL.
  + Tools and Techniques used:- Mainframe
  + Status:- Code moved to production.
  + Process Improved:- Code deployment is verified manually I wrote Rexx code for doing it automatically which saved the time to give last signoff easily.