

Parimala V.R.**Consultant , AI & Data Engineering**

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Mobile:

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Summary of Experience and Qualifications

Parimala joined Deloitte USI firm as a Consultant in April 2022. She is a AI & Data Engineer with working knowledge in Python, AWS, SQL, PySpark. Proficient in the end-to-end development lifecycle, including analysis, design, coding, testing, and release as per the business requirement. Well-versed in database engineering, ETL development, and building Big Data systems for unified analytics platforms. She is Skilled in designing, implementing, and optimizing data transformation processes in the AWS environment. Demonstrated expertise in machine learning model implementation and Flask deployment. Currently contributing to the Data Dimensional Modeling project, proficiency in near real-time data streaming, EDB layer management, and comprehensive ETL process creation.

Experience**Industry:** Pharmaseuticals **Sector:** Life Sciences**Offering Portfolio:** Strategy and Analytics **Offering:** AI & Data Engineering**Client :** Takeda Pharmaseuticals**Project:** Data Dimensional Modeling; **(Aug 2023 - Present)****Role:**

- Implemented near real-time streaming of manufacturing data from S3 lake to Databricks Delta tables in the hub S3 layer.
- Proficient in EDB layer management and data integration across Lake, Hub, and Mart.
- Developed Pyspark framework, streams incoming data from Delta tables in the S3 lake layer to Delta tables in the S3 hub layer.
- Developed mappings, ER diagrams, and workflows in line with business requirements.
- Engaged in all phases of Data Warehousing, including analysis, requirement gathering, and code development; collaborated on comprehensive ETL process creation.

Technical Environment:

- AWS Cloud (AWS S3, AWS lambda, boto3)
- Databricks
- Python/PySpark
- SQL
- Tidal

Industry: Pharmaseuticals **Sector:** Life Sciences**Offering Portfolio:** Strategy and Analytics **Offering:** AI & Data Engineering**Client :** Takeda Pharmaseuticals**Project:** EDB EHS Sustanibility by Design; **6 months (Feb 2023 – Jul 2023)****Role:**

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- Implemented ETL pipelines for healthcare data, automating the calculation of emission values.
 - Coordinated with various teams for Globalscape job setup, deployment to higher environments, and addressed access-related issues for the team.
 - Developed comprehensive functional and technical design specification documents, providing clear guidance for project implementation and execution.
 - Played a key role in conducting data profiling activities, ensuring a comprehensive understanding and assessment of data characteristics and quality.
 - Successfully delivered the final product to stakeholders, presenting its merits and obtaining their esteemed approval.

Technical Environment:

- AWS Cloud (AWS S3, AWS lambda, boto3)
- Databricks
- Python/PySpark
- SQL
- Tidal

Industry: Pharmaseuticals **Sector:** Life Sciences

Offering Portfolio: Strategy and Analytics **Offering:** AI & Data Engineering

Client : Takeda Pharmaseuticals

Project: Quantitative sBR Application; **6 months (Aug 2022 – Jan 2023)**

Role:

- Contributed to the development of an advanced analytics model predicting the likelihood of a person suffering from a specific disease or not.
- Collaborated with the data discovery team to gather and consolidate data from diverse sources.
- Built classification models using the Logistics regression, Decision tree, Random forest, support vector mechanism and compared their performance accuracy.
- Translated SAS code to Python for implementing the MCDA model, crafting a value tree visualization using HTML for the prototype.
- Collaborated on the engineering of a Flask app to orchestrate backend data components based on user-selected visualizations.
- Contributed to creating a Docker container to run the Flask app on an EC2 instance.
- Implemented logging and exception handling across data components, pushing logs to an S3 bucket.
- Worked on user access management code to provide and restrict the access to Quants-br app.
- Gained exposure to resampling ML model techniques for generating confidence interval scores on 'n' samples.
- Collaborated on engineering AWS Lambdas for fetching data from the PostgreSQL database.

Technical Environment:

- AWS Cloud (AWS S3, AWS lambda, boto3, Ec2, EMR)
- Docker, flask app
- PostgreSQL
- Python IDE

Industry: Pharmaceuticals Sector: Life Sciences

Offering Portfolio: Strategy and Analytics **Offering:** AI & Data Engineering

Client : Takeda Pharmaceuticals

Project: AP Central Framework; **1 month (Jul 2022)**

Role:

- Worked on AP Central framework development in local environment.
- Developed metadata framework for capturing meta values of source files & intermediate data.
- Developed unit test cases for Data Quality checks.
- worked on creating AP Central framework technical specification documentation.

Technical Environment:

- Python IDE

Industry: Technology, Media & Telecommunications

Offering Portfolio: Core Business Operations **Offering:** Cloud Engineering

Client : Thomson Reuters Corporation; **3 months (April 2022 – Jun 2022)**

Role:

- Worked on the following user stories:
 - Created lambda function to connect and fetch data from RMS database and to get request from Api Gateway and return the response for the same.
 - Created cloud formation(SAM) template for DMS task to migrate the data from oracle to Postgres database.

Technical Environment:

- AWS Cloud(AWS SAM, AWS lambda)
- PostgreSQL
- Python IDE

Previous experience

Tata Consultancy Services, Hyderabad India

Industry: Fast-moving consumer goods

Offering Portfolio: Transformation, tools and Automation **Offering:** Data Analyst

Client: PepsiCo, Inc

Data Analyst; **3 years 7 months (Sep 2018 – Mar 2022)**

Role:

- Implemented agile methodologies and scrum practices, ensuring efficient project delivery.
- Contributed to the entire software development life cycle, emphasizing analysis, design, development, and testing phases.
- Automated manual tasks within application teams through Python and shell scripting, optimizing operational efficiency.
- Executed precise database queries using Python modules and the DB package, ensuring accurate data retrieval.
- Developed use cases for seamless data extraction from browsers using Python APIs and Selenium.

- Automated report generation and email notifications through Windows Task Scheduler, enhancing task efficiency.
- Conducted comprehensive code review, addressing test cases and debugging to elevate overall code quality.
- Developed comprehensive log monitoring and analysis solutions using Elastic components (Filebeat, Metricbeat, Logstash, Elasticsearch, Kibana).
- Designed and implemented customized Kibana dashboards for end-user visualization.
- Developed PowerShell scripts to facilitate service and process restarts within the Ignio tool.

Languages/Tools: Python, PowerShell, UNIX, SQL, html, CSS, AWS, Elastic stack, Logstash, Beats, Kafka, Kibana, ServiceNow, C, PyCharm, Putty

Database: Postgres

Operating System: Windows, Linux

Scheduling Tools: Control-M, Autosys

System experience

Software/products:

- AWS: Project Experience
- GitHub: Project Experience
- Postman: Project Experience

Development tools/languages:

- Python/PySpark: Project Experience
- EC2, EMR, boto3, AWS lambda: Project Experience
- Databricks: Project Experience
- Jupyter Notebook: Project Experience
- Machine Learning: Training only
- HTML, CSS, JavaScript: Training only

Hardware/operating systems:

- Windows
- Linux

Middleware/databases:

- SQL: Project Experience
- Oracle: Training only
- AWS S3: Project experience
- PostgreSQL: Project Experience
- AWS Athena: Training only

General tools:

- Microsoft Excel: project experience
- Microsoft Word: project experience
- Microsoft Power Point: project experience

Education

Bachelor of Technology, Computer Science and Engineering

Visvesvaraya Technological University (VTU), Belagavi, Karnataka (2014-2018)

Professional affiliations/certifications

Certifications\ AWS Cloud Practitioner

Certifications\ AWS Certified Solutions Architect - Associate

Language skills

- English - Fluent in Business
- Hindi - Fluent in Business
- Kannada - Fluent in Business
- Telugu – Native

Internal References

Smita Shetty, Mumbai, smshetty@deloitte.com (Team Lead)

Deepthi Vuna, Hyderabad, dvijayakumarvuna@deloitte.com (Team Lead)

Anil Raj Botcha, Hyderabad, abotcha@deloitte.com (Team Lead)