VIGNESH KUMAR SATHYA MURTHY

0466903192 • ess.vigneshkr@gmail.com • www.linkedin.com/in/vignesh-kumar13 • https://vigneshkr13.github.io/ • Melbourne • Graduate Visa (Subclass 485)

SKILLS

Data Science & Machine Learning: Data Cleaning, Data Manipulation, Data Modelling, Machine Learning, AI Integration, NLP, Data Visualization, Business Intelligence(BI).

ETL and Data Engineering: ETL, Informatica PowerCenter, Apache Spark, Data Pipelines, Data Ingestion, Data Warehousing, Automation.

Frontend Development: HTML, CSS, JavaScript, React.js, Next.js, Responsive Web Design.

Backend Development: Flask, GraphQL, API Development, SQL(PostgreSQL, Oracle), PostGraphile.

Cloud Computing & Big Data: Microsoft Azure, AWS, Apache Spark, Serverless Computing (Azure Functions, AWS Lambda).

Programming & Tools: Python, R, SQL, Shell Scripting, Microsoft Power BI, Informatica PowerCenter, OpenAI APIs, Jupyter Notebook, Jira.

EXPERIENCE

VisionVerse Interactive Pty Ltd
Melbourne, Australia
Data and AI Intern
07/2024 - 12/2024

Technologies Used: Python, Selenium, BeautifulSoup, Pydantic, OpenAI, ScrapeGraphAI, PostgreSQL, PostGraphile, Next.js, GraphQL, Jira, GitHub

- Developed an AI-driven solution automating the creation of personalized webpages for small-to-medium-sized restaurants, generating it within 2 minutes.
- Implemented a universal scraping module using OpenAI's LLM, Python, and Selenium to extract restaurant data (e.g., menus, logos), overcoming layout inconsistencies, with a 95% success rate.
- Designed a dynamic frontend in Next.js, enabling real-time webpage generation from user-inputted URLs.
- Integrated a reward-based system, enabling stamp collection and coupon redemption to enhance user engagement and incentivize repeat usage.
- Led end-to-end project phases, collaborating in a five-member Agile team.

Tata Consultancy Services Ltd
TamilNadu, India
Data Engineer
01/2021 - 12/2022

Technologies Used: Informatica PowerCenter, SQL, Unix Shell Scripting, PL/SQL, Cognos

- Improved ETL workflows using Informatica, reducing processing time by 50%, and increasing data accuracy by 30%.
- Automated job scheduling with shell scripts, cutting manual interventions by 40% and improving monitoring efficiency by 25%.
- Delivered 98% of sprint goals on time in Agile teams, optimizing backlog prioritization and project delivery.
- Enhanced database performance, reducing query response time by 25% and improving system reliability.
- Designed comprehensive reporting dashboards using Cognos, streamlining data visualization and enabling stakeholders to make faster, data-driven decisions.

EDUCATION

RMIT University
Melbourne, Australia
Masters of Data Science
02/2023 - 12/2024

Sona College of University
TamilNadu, India
Bachelors of Computer Science and Engineering
08/2016 - 09/2020

PROJECTS

Real-time Taxi Data Stream Processing
Github Link: https://github.com/vigneshkr13/Taxi-Trip-Analytics

Technologies Used: Apache Kafka, Apache Spark Streaming, HDFS, Scala.

- Processed NYC taxi trip data in real-time using Apache Kafka and Spark Streaming to compute ride metrics, store data in HDFS (Parquet), and ensure system reliability with checkpointing and state management.

Cloud-Based Music Subscription Application
Github Link: https://github.com/vigneshkr13/AWS-Music-Subscription-Application

Technologies Used: AWS EC2, S3, API Gateway, Lambda, DynamoDB, Python

- Designed a music app leveraging AWS services like EC2 for hosting, S3 for scalable storage, Lambda for serverless operations, and DynamoDB for data management. Enabled seamless user interactions, ensuring high availability, fast data retrieval, and a robust backend infrastructure.

CERTIFICATION/ TRAINING

💎 Azure Fundamentals Microsoft	💎 Azure Data Fundamentals Microsoft	💎 Industry Experience Program RMIT University
💎 Advanced Data Structure and Algorithm Scaler Academy	💎 Java Enterprise Apps Oracle	