

# VIGNESH KUMAR SATHYA MURTHY

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## SKILLS

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

**ETL and Data Engineering:** ETL, Informatica PowerCenter, Talend, Apache Spark, Hadoop, Kafka, Data Pipelines, Data Ingestion, Automation, Snowflake.

**Frontend Development:** HTML, CSS, JavaScript, Next.js.

**Backend Development:** Flask, GraphQL, API Development, PostgreSQL, PostGraphile.

**Cloud Computing & Big Data:** Microsoft Azure, AWS, Apache Spark, Hadoop, Databricks, Serverless Computing, AWS Lambda, Azure Functions.

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

## EXPERIENCE

**VisionVerse Interactive Pty Ltd** Melbourne, Australia  
**Data and AI Intern** 07/2024 - 12/2024  
**Technologies Used:** Python, OpenAI APIs, Web Crawling, Selenium, BeautifulSoup, GraphQL, PostgreSQL, Next.js, JIRA

- Developed an AI-driven solution automating the creation of personalized webpages for small-to-medium-sized restaurants, generating webpages 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 in the Dine Seal app, 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 Engineering** 01/2021 - 12/2022  
**Technologies Used:** Informatica PowerCenter, Unix Shell Scripting, SQL, PL/SQL, Cognos, Excel

- 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 and automated 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**  
**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**  
**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

<b>Azure Fundamentals</b> Microsoft	<b>Azure Data Fundamentals</b> Microsoft	<b>Industry Experience Program</b> RMIT University
<b>Advanced Data Structure and Algorithm</b> Scaler Academy	<b>Java Enterprise Apps</b> Oracle	