SUNDARAVELA A

Aspiring Data Engineer — Big Data Enthusiast

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SUMMARY

- Recent Information Technology graduate skilled in SQL, Python, and Linux.
- Passionate about data engineering and big data technologies, with a strong interest in building scalable and efficient data solutions.
- Currently expanding my expertise by learning Hadoop, Spark, and cloud data services.

SKILLS

- **Database Management:** MySQL (RDBMS)
- **Programming Languages:** Python
- **Web Technologies:** HTML, CSS, JavaScript
- **Operating Systems:** Linux (Ubuntu)
- **Tools & Technologies:** Visual Studio Code, PyCharm, Jupyter Notebook, SQL Notebooks, Google Firebase Cloud Messaging, GitHub

PROJECTS

Spotify Data Analytics [GitHub Link]

Developed a data analytics pipeline using Spotify's Web API to extract music metadata, transform data with Python, and load into MySQL (RDBMS) for analysis. Visualized insights with Matplotlib and conducted ETL using Pandas in Jupyter Notebook, developed primarily in PyCharm.

Tools & Technologies: Jupyter Notebook, Matplotlib, MySQL (RDBMS), Pandas, Python, PyCharm, Spotify Web API

Zomato-like Food Ordering Website Data Analytics [GitHub Link]

Built a full-stack food ordering system with MySQL (RDBMS) backend and Python Flask API. Performed SQL analytics to identify revenue and customer trends. Frontend implemented using HTML, CSS, JavaScript. Managed development in PyCharm.

Tools & Technologies: Flask, HTML, CSS, JavaScript, MySQL (RDBMS), Python, PyCharm, SQL Notebooks

Instagram-like Push Notification and Data Analytics [GitHub Link]

Implemented real-time push notifications using Google Firebase Cloud Messaging with a Flask backend and MySQL (RDBMS) storage. Developed analytics on notification patterns and user engagement using SQL queries. Frontend integrated with Firebase SDK.

Tools & Technologies: Flask, Google Firebase Cloud Messaging, HTML, CSS, JavaScript, MySQL (RDBMS), Python, PyCharm

Deep Learning-based Dementia Classification and Monitoring Using an Android App

Final year project leveraging ResNet-101 for spatial feature extraction and BiLSTM for temporal sequence analysis to classify dementia stages. Integrated into a React Native Android app for predictive analytics, real-time monitoring, and personalized care.

Tools & Technologies: BiLSTM, Jupyter Notebook, Python, PyCharm, React Native (Expo), ResNet-101, VS Code

EDUCATION

2021 – 2025	B.Tech in Information Technology, **Sri Manakula Vinayagar Engineering College, Puducherry**	CGPA: 8.0
2020 – 2021	Higher Secondary Certificate (HSC), **Vivekanandha Higher Secondary School, Puducherry**	86%
2018 – 2019	Secondary School Leaving Certificate (SSLC), **Vivekanandha Higher Secondary School, Puducherry**	84%

PUBLICATIONS

Deep Learning-Based Dementia Classification and Monitoring Using an Android Application
Maheshwaran.T, Nithyshkumar.G, Sundaravela.A, Kiran.S
DOI: https://doi.org/10.52783/jisem.v10i27s.4419

A deep learning approach integrating advanced neural networks with a mobile app for automated dementia diagnosis and monitoring, enabling early intervention and improved patient care.

ADDITIONAL INFORMATION

Languages:	English, Tamil
Hobbies:	Cricket, learning new skills and technologies
Certifications:	Java Full Stack Certification – Wipro TalentNext
Memberships:	Google Developer Student Clubs (GDSC) Member – Participated in college workshops