

Ganesh Lakshmana

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Summary

Data Science graduate with 2 years of professional experience in software development and data analytics. Optimized operational workflows by redesigning data processing algorithms, leading to an annual time savings of over 1,200 hours on report generation and allowing the team to focus on strategic decision-making tasks.

Education

Master of Science, Data Science

Berlin, Germany

International University of Applied Sciences

Expected Jul 2026

Relevant coursework: Advanced Mathematics, Programming with Python, Software Engineering for Data Intensive Sciences, Use Case Evaluation.

Bachelor of Technology, Mechanical & Engineering

Bangalore, India

R.E.V.A University

Aug 2018 - May 2022

Relevant coursework: Calculus, Linear Algebra and Laplace Transform, Numerical Methods and Probability, Applied Mathematics, Machine Learning Program using Python, Artificial intelligence

Technical Skills

Programming Languages: Python, Java, SQL, PL/SQL

Data Analytics tools: Tableau, Power BI, Matplotlib, Seaborn, Python (Pandas, NumPy), TensorFlow, PyTorch, Excel

Machine Learning: Model building and evaluation, feature engineering, Scikit-learn, TensorFlow, PyTorch

Databases and Data Visualization tool: PL/SQL, MySQL, PostgreSQL, MongoDB, Matplotlib, Seaborn, Plotly

Tools: Git, Jenkins, Maven, VS Code, Eclipse, JupyterLab, Jupyter Notebooks, Azure Databricks Azure, Github Experience

Software Engineer

Jul 2022 – Jul 2024

LTIMindtree Ltd

Bangalore, India

- Optimized data pipelines in **Azure Databricks**, resulting in a **20%** boost in data processing efficiency and enabling **real-time analytics** for better decision-making.
- Reengineered and migrated analytics dashboard pipelines from **Azure Databricks** to **Synapse Studio**, enhancing processing speed by **30%** and streamlining data processing workflows.
- Collaborated with cross-functional teams to gather requirements and deliver data-driven solutions, resulting in a **20%** reduction in project delivery time, using tools like Jupyter Notebooks and SQL

Software Engineer Intern

Mar 2022 – Jun 2022

LTIMindtree Ltd

Bangalore, India

- Analyzed sales data to uncover trends, achieving a 15% increase in sales forecasting accuracy, by using Python libraries such as **Pandas** and **NumPy** for data cleaning and analysis.
- Resolved over **15 merge conflicts** and reviewed **20+ pull requests** using **Git**, ensuring smooth version control and streamlined collaboration with the team.

Projects

Movie Recommendation System | *Python, Streamlit, Requests, Pickle, SQLite*

Jan 2024 - Mar 2024

- Engineered a movie recommendation engine using pickled models and cosine similarity, increasing user engagement by 25% by providing personalized movie suggestions based on user preferences.
- Implemented a secure login system with password hashing via SQLite, ensuring user data security and enabling personalized recommendations.

Covid-19 Data Analysis | *Python, Pandas, Seaborn, Matplotlib*

Jul 2023 - Oct 2023

- Cleaned and preprocessed over 500,000 rows of Covid-19 data, aggregating the dataset by country and eliminating 15+ irrelevant columns, leading to a 20% improvement in data processing efficiency.
- Analyzed infection rate trends, calculating the first derivative for over 150 countries, and identified the maximum infection rate for China, contributing to a 25% reduction in response time for health analysis.

ETL Pipeline – NASA APOD API to PostgreSQL

Apr 2025 | IU International University of Applied Sciences

Designed and implemented a modular ETL pipeline using Apache Airflow, Python, and PostgreSQL to ingest daily data from NASA's Astronomy Picture of the Day (APOD) API.

Orchestrated extraction, transformation, and loading using Airflow's TaskFlow API and SimpleHttpOperator.

Transformed raw JSON data into a structured format and dynamically stored it in a PostgreSQL database using PostgresHook.

Containerized the pipeline with Docker Compose, ensuring reproducibility and isolated execution environments.

Awards & Recognition

Best Collaboration Award – 2023 LTIMindtree

Received for outstanding teamwork and cross-functional collaboration, contributing to successful project delivery and enhanced team synergy.