

Pavan Kalyan Reddy Mallidi
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linkedin — github

Summary

Results-driven engineer with hands-on experience in data engineering, machine learning, and cloud-native development. Trained through LTIMindtree's IGNITE program with practical work in ETL pipelines, Big Data (Spark, Hadoop), and data warehousing. Built end-to-end solutions using Python, PySpark, React, and Node.js, including automated workflows and production-level ML models (CNN, NLP, time series). Seeking Data Engineering or ML Engineering roles starting May 2025.

EDUCATION

<i>Florida Institute of Technology, Melbourne, FL (CGPA: 3.50 / 4.0)</i>	Jan 2024 – Dec 2025
Masters in Computer Science	
Lovely Professional University, Punjab, India	July 2019 – May 2023

Technical Skills

- **Programming:** C++, Python, SQL, JavaScript
 - **Data & Big Data:** ETL Pipelines, Pandas, NumPy, Spark, Hadoop, PySpark
 - **Cloud & Visualization:** AWS (S3, EC2), Azure, Google Cloud Platform (GCP)
 - **Databases:** MySQL, MongoDB, SQL Server
 - **Machine Learning:** EDA, Feature Selection, Data Cleaning, Data Modeling, PyTorch, NLP, CNN, Time Series Analysis, OpenAI APIs, GPT
 - **Web Development:** React.js, Node.js, HTML, CSS
 - **Tools & OS:** UNIX/Linux, Git/GitHub, Design Patterns, Test Automation
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WORK EXPERIENCE

Florida Institute of Technology – Melbourne, FL	<i>Grader — Jan 2025 – Apr 2025</i>
• Evaluated assignments, exams, and programming projects for Computer Science courses.	
• Provided constructive feedback on algorithms and data structures.	

LTIMindtree – Remote *Software Engineering Trainee — Feb 2023 – Apr 2023*

- Completed a 9-week IGNITE professional training on big data and cloud computing.
- Gained exposure to data warehousing, ETL processes, and scalable data pipelines.
- Strengthened problem-solving and time management skills through milestone-based coding assessments.

PROJECTS

Automated CSV-to-BigQuery ETL Pipeline – Apache Airflow

- Built an automated ETL pipeline for processing 50,000+ records per batch into Google BigQuery.
- Improved efficiency by 80% and achieved 99.9% accuracy using validation and quality checks.
- Reduced runtime to 15 minutes per 100MB file with optimized scheduling and workflow design.
- **Tech Stack:** Python, Airflow, BigQuery, GCP

Shrimp Disease Diagnosis – Machine Learning (CNN)

- Developed a machine learning application for detecting White Spot Syndrome Virus (WSSV) in shrimp.
- Demonstrated the potential of CNN models for rapid and low-cost disease detection.
- **Tech Stack:** Python, TensorFlow, OpenCV, Flask

LinkedIn Clone – React.js

- Built a LinkedIn-like platform featuring user profiles, posts, and networking features.
- Enhanced UI with modern React components and fully responsive layout.
- **Tech Stack:** React.js, Node.js, Express.js, MongoDB

Movie Searching Application – React.js

- Integrated IMDb API to provide dynamic movie search and detailed information retrieval.
 - Strengthened API integration skills and improved React component architecture.
 - **Tech Stack:** React.js, IMDb API
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ACHIEVEMENTS

- Student Lead, Panther Dining Hall (FIT) – supported operations, coordinated team tasks, and maintained service quality.
- Workshops, Hackathons, Built multiple side-projects for learning, AR and VR workshops.