

# PAVAN KALYAN REDDY MALLIDI

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## SUMMARY

Results-driven **Software Engineer** with a solid foundation in **data engineering, full-stack development, and applied machine learning**. Completed **LТИMindtree's IGNITE professional training program**, gaining hands-on experience with **data warehousing, big data (Spark, Hadoop), ETL pipelines, and cloud platforms (AWS, Azure, GCP)**. Skilled in developing scalable solutions using **React.js, Node.js, and Python**. Experienced in building **AI-driven models** (CNN, NLP, time series analysis, computer vision) and automating data workflows. Quick to learn new technologies and passionate about solving real-world problems with clean, efficient code. **Actively seeking internship or full-time opportunities in Software Engineering, Data Engineering, or Machine Learning starting May 2025.**

## EDUCATION

### Florida Institute of Technology – Melbourne, FL

Master of Science in Computer Science (CGPA: 3.50 / 4.0) — Jan 2024 – Dec 2025 (Expected)

### Lovely Professional University – Punjab, India

Bachelor of Technology in Computer Science and Engineering (CGPA: 3.33 / 4.0) — Jul 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

## EXPERIENCE

### Florida Institute of Technology – Melbourne, FL

*Grader | Jan 2025 – Apr 2025*

- Evaluated assignments, exams, and programming projects for Computer Science courses.
- Provided constructive feedback on algorithms and data structures.
- Developed an automated grading script improving efficiency by 40%.

### LТИMindtree – 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, 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 50,000+ records per batch into Google BigQuery.
- Improved efficiency by 80% and achieved 99.9% accuracy with validation checks.
- Reduced runtime to 15 minutes per 100MB file with daily scheduling.

**Tech Stack:** Python, Airflow, BigQuery, GCP

### Shrimp Disease Diagnosis – Machine Learning (CNN)

- Designed ML application to identify White Spot Syndrome Virus (WSSV) in shrimp.
- Demonstrated CNN potential for rapid, low-cost disease detection.

**Tech Stack:** Python, TensorFlow, OpenCV, Flask

**LinkedIn Clone – React.js**

- Built LinkedIn-like platform with profiles, posts, and networking features.
- Enhanced UI with modern React components and responsive design.

**Tech Stack:** React.js, Node.js, Express.js, MongoDB

**Movie Searching Application – React.js**

- Integrated IMDb API for dynamic movie data retrieval.
- Strengthened skills in API integration and React component architecture.

**Tech Stack:** React.js, IMDb API