

# Pedineedi Lahari

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## SUMMARY

Experienced professional with 2+ years of expertise as a Python Developer. Proficient in utilizing JSON API, Pydantic, and PostgresDB for efficient server operations. Demonstrated ability to enhance service speed and efficiency. Self-taught individual seeking opportunities as a Data Engineer to further develop skills and contribute to impactful data-driven projects. Open to new challenges in the field of Data Engineering.

## KEY SKILLS

**Programming Languages & Frameworks:** Python, SQL and Django  
**Machine Learning & Web Development:** Machine Learning, Pandas, Pydantic and JSON API  
**Version Control & Collaboration:** Git, Gitlab, Gerrit and Github  
**Data Analytics & Reporting :** Databricks and IBM Cognos Analytics  
**ETL & Data Integration:** ETL Pipelines, Data Factory, Apache Airflow, Shell Scripting and Automation  
**Data Warehousing & Data Modeling:** ERD, Dimensional Modeling, Star/Snowflake schemas and Normalization  
**Big Data Technologies :** Apache Spark, Hadoop, Pyspark, Azure Data Lake Storage and Apache Kafka  
**NoSQL Databases :** MongoDB, Cassandra  
**Relational Databases:** PostgresQL, MySQL and IBM DB2(DBaaS)

## PROFESSIONAL EXPERIENCE

**Python Developer** Nov '22 - May '23  
**Mitsogo Technologies** Chennai, IN

- Accomplished in optimizing and managing the backend server, leveraging **JSON API** and **Pydantic** for robust data validation
- Responsible for enhancing **30%** speed of services and stores in the backend of a mobile device management product
- Obtained hands-on experience in hexagonal architecture server sub-division and bug fixes using **Git/Gitlab**
- Explored and used **OpenAPI** for generating specifications related to backend

**Associate Software Engineer** Sep '21 - Oct '22  
**HARMAN Connected Services** Bengaluru, IN

- Created APIs for a **custom build framework** utilized for automation in infotainment domain that uses objects from Squish
- Gained hands-on experience in adding and reviewing test cases for UI Widgets with the use of collaboration tools such as **Git/Gerrit**
- Responsible for keeping check on results of regression reports on a daily basis and find the root causes for failures if any

**Data Science Intern** Aug '20 - Dec '20  
**The Travel Back** Vancouver (Remote)

- Collaborated with multi-disciplinary product development teams to identify performance improvement opportunities
- Integrate trained models on building hybrid recommendation systems using Machine Learning in Travel domain
- Transformed raw data to conform to assumptions of machine learning algorithms

**Machine Learning Engineer** May '20 - Jul '20  
**Career Launcher** Hyderabad (Remote)

- Worked on stock data analysis
- Performed time series analysis and built ML models to predict stock prices.

## KEY DEVELOPMENT PROJECTS

**Data Platform Development and Analytics for E-commerce | May '23**

- Designed a data platform utilizing IBM Db2 on cloud as the data warehouse, **MySQL** as an OLTP database, and **MongoDB** as a NoSQL database for an e-commerce organization.
- Leveraged IBM Cognos Analytics to create reports and perform analytics on the data stored in the **IBM Db2 on cloud** data warehouse.
- Implemented automated **ETL** pipelines using **shell** commands, **cron** jobs, and Apache **Airflow** to extract, transform, and load data from MySQL and MongoDB into IBM Db2 on cloud.

- Integrated a **Spark** connection and deployed a ML **model** for accurate sales projections based on the data stored in IBM Db2 on cloud, enabling data-driven decision-making through comprehensive **reports** and analytics using **IBM Cognos Analytics**.

**Data Engineering Project on ETL | Tech Stack: Python, Pandas , Web scraping, ETL | May ‘23**

- The main task is to **collect** and track financial **data**, including stock prices, commodities, forex rates, and inflation rates
- We will **gather data** from websites, **APIs**, and provided files (**CSV, XML, JSON**)
- After **extracting** and **transforming** the relevant information, it'll be saved in a ready-to-load format for data engineers to utilize
- The project aims to support **data-driven decision-making** and generate valuable insights for the financial analysis company

**Web Application | Tech Stack: Django, Jinja , SQLite, HTML, CSS | Nov'21**

- Developed a Customer Relationship Management interface that acts an mediator between the clients and agents
- Lead a team of 7 members by planning sprints and dividing the tasks effectively to meet the deadlines
- Developed a **dashboard** portraying the analysis of companies growth in terms of managing clients using **Chart.js**

**Machine Learning | Tech Stack: Framework Django, MVT , Postgres | Dec ‘20**

- Used **Django** web framework to create web page that accepts previous sales auditing data to predict future backorders
- Implemented **XGBoost** algorithm to generate future backorders and deployed on **Heroku**
- Used **Postgres** database to create automatic tables in association with the input data from backend

**EDUCATION**

<b>B. Tech, Computer Science &amp; Engineering</b>	Jun '17 - Jul '21
<b>Sai Tirumala Nalabothu Venkata Rao Engineering College</b>	Andhra Pradesh
<ul style="list-style-type: none"><li>• Scored <b>8.75/10 CGPA</b></li></ul>	
<b>Intermediate, MPC</b>	Jun '15 - May '17
<b>Narayana Junior College</b>	Hyderabad
<ul style="list-style-type: none"><li>• Scored <b>94.6/100 %</b></li></ul>	
<b>SSC</b>	Jun '14 - Apr '15
<b>LFG Digi High School</b>	Hyderabad
<ul style="list-style-type: none"><li>• Scored <b>10/10 CGPA</b></li></ul>	

**AWARDS**

- Rise Award | **HARMAN Connected Services** | 2022

**CERTIFICATIONS**

- **Data Engineering Professional Certificate** | **IBM** | 2023
- **Machine Learning with Python** | **IBM** | 2020
- **Introduction to Data Science Specialization** | **IBM** | 2019
- **Python for Data Science and AI** | **IBM** | 2019

**SOFT SKILLS**

Attention to Detail • Communication • Adaptability • Responsible • Ownership • Time Management

**EXTRACURRICULAR ACTIVITIES**

- Pencil Art
- Sports (Throw Ball) and practicing gymnastics skills.