

# Aditya Venkatesh Marada

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## EDUCATION

### University of Amsterdam

*Master of Science in Computer Science*

Expected SEP 2026

*Amsterdam, Netherlands*

### PES University

*Bachelor of Technology in Computer Science*

JUL 2020

*Bangalore, India*

## EXPERIENCE

### Google Summer of Code

May 2025 Onwards

#### *Research Intern*

*Remote*

- Leading research to enhance the DBpedia Knowledge Graph focusing on **multilingual information extraction** from text using small **language models** and advanced **link prediction**.
- **Finetuned Gemma using LoRA** to achieve **state-of-the-art 66% recall** for open information extraction tasks from low resource languages.

### Lendingkart

APR 2022 – JUL 2024

#### *Senior Software Engineer*

*Bangalore, India*

- Designed and developed a self-serve onboarding platform using **Spring Boot, MySQL, and Kafka**, reducing developer bandwidth by 5 man-days per sprint.
- Built the backend for **multi-tenant dashboards** with **Logstash, Redis, and Elasticsearch**, reducing dashboard deployment time by **45%** and increasing lender **reusability** across 5+ credit products.
- Developed reusable custom onboarding features using Spring Boot, Kafka, and Debezium, enhancing the feature offering on the platform while boosting disbursement capacity to **₹3000M per month**.
- Improved the rule evaluation process with **scheduling, asynchronous processing** and **database optimisations** reducing runtime for each application from ~55 to ~10 seconds, **enhancing system efficiency by 80%**.

### Lendingkart

OCT 2020 – MAR 2022

#### *Software Engineer*

*Bangalore, India*

- Developed and piloted a loan-selling framework using Spring Boot and **Quartz scheduling**, scaling co-lending disbursements from ₹200M to ₹1000M per month, **increasing business volume by 5x**.
- Collaborated on and led the development of a **customisable Java rule engine**, to enable non-technical users to define credit rules, increasing lender onboarding velocity from 2 to 5 per quarter.
- Created custom metrics and alerts in Kibana to monitor all the above systems **reducing recovery time by 10%**.

## RESEARCH & PROJECTS

### AI-Driven Question Answering with Fact Validation

2024

- Developed a comprehensive question-answering and fact-checking system utilizing Llama 2 and transformer models. Integrated spaCy for NER and SPARQL for DBpedia/Wikidata querying for fact validation.

### A Framework to Capture the Shift in Dynamics of a Multi-phase Protest

2021

- Analysed Hong Kong protests using Twitter data to map sentiment evolution and participant growth, employing Python, Twint, and BeautifulSoup for **data scraping**, alongside NLTK and Gephi for **data processing and analysis**. [[Paper Link](#)]

## SKILLS

**Programming:** Python, Java, SQL, C, C++, Bash

**Data Science & AI:** Knowledge Graphs, Large Language Models (LLMs), Information Extraction, Natural Language Processing (NLP), Machine Learning, Retrieval Augmented Generation, Semantic Web

**Technologies:** Flask, Spring Boot, Kubernetes, Kafka, Git, Redis, Elasticsearch, Docker, Logstash, Debezium