

# Akash Ajay Kallai

Vapi, Gujarat, India | +91 9054966271 | [email](#) | [GitHub](#) | [Linkdin](#) | [Portfolio](#)

## SUMMARY

Backend Developer skilled in Python, API integrations, and system optimization. Experienced in writing scalable code, improving performance, integrating microservices, and collaborating with cross-functional teams.

## EDUCATION

• **SRM Institute of Science and Technology, India**

June 2024

BTech(Computer Science and Engineering with Specialization in AI/ML)|CGPA:7.3

## WORK EXPERIENCE

### Python Developer

TBTFW Ventures | *Jan 2025 – March 2025*

- **Developed and optimized data retrieval** using **third-party market data APIs**, automating **expiry date selection** for futures.
- **Engineered backtesting solutions** with **high-performance computing tools**, improving **trade execution and risk management**.
- **Optimized data storage and processing** with **Parquet files and Pandas**, enhancing **efficiency and scalability**.

### Machine Learning Engineer Intern|

Shiash Info Solutions Private Limited | *Mar 2024 – Jun 2024*

- **Led end-to-end ML projects** in **economics & energy forecasting**, handling **data creation to deployment**.
- **Applied data processing techniques** to **healthcare ML models**, improving model accuracy.
- **Gained broad ML experience** across multiple domains, strengthening **technical and analytical skills**.

## SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript
- **Frameworks & Libraries:** Django, Flask, Pyramid, TensorFlow, PyTorch, Scikit-Learn, VectorbtPro
- **Databases:** MySQL, PostgreSQL, MongoDB, DuckDB
- **Tools & Technologies:** Git, VS Code, ReactJS, RESTful APIs, AWS (Basic)
- **Core Competencies:** Backend Development, API Development, System Optimization, Security & Data Protection, Testing & Debugging, Backtesting

## PROJECTS

### Advanced E-commerce Recommendation System | *Python, NLP, BoW, TF-IDF, Word2Vec*

- Built a content-based recommendation system delivering results within 100ms for 1M+ products.
- Achieved 98% accuracy using NLP techniques like BoW and TF-IDF.
- Integrated Amazon Product Advertising API for enhanced functionality.