

## Piyush Kumar

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### PROFESSIONAL SUMMARY

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Senior Software Engineer with 5+ years of experience in Python development, cloud-native solutions, testing, and team management, in live product and finance services. Proven expertise in Flask, FastAPI, Flask, SQL, and AWS (S3, EKS, Lambda), with a strong record of automating data pipelines, optimising performance, test driven approach, & integrating APIs, with AI LLM services. Adept at building scalable, secure microservices & mentoring cross-functional teams.

### EXPERIENCE

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#### *Senior Software Engineer, Atari Games*

*October 2025 - Present*

#### *Video Game Archival and Portfolio/Career Portal ([www.mobygames.com](http://www.mobygames.com))*

- Integrated Oauth and SSO login from various portals like Google, LinkedIn, Steam, etc. to reduce user onboarding friction and increase customer collection rate by **20%**.
- Resolved 20+ critical security issues (DB, network, DDOS, etc.), to reduce potential breach probability by **15%**.
- Refactored analytics and visualisation section on Jinja, Vue and Flask to have better UI, more features and user friendly, thereby getting up to **25%** increase in monthly paid users.
- Integrated **Google Gemini AI** based data scraping in the backend for better data availability.

#### *Technology Solutions Lead, Gemini Solutions*

*January 2021 - October 2025*

#### *FastAPI based Service for Market Data Operations (Client - PIMCO)*

- Designed and deployed FastAPI microservice to handle on-demand market data retrieval and processing, improving API latency by **40%** compared to legacy batch jobs.
- Added async job execution using AWS Step function, reducing data update time from **~15 minutes to <2 minutes**.
- Led team for creating **GPT-4o** based **AI chat-bot** & integrated REST endpoints in it, for easier interaction even by non-technical users.

#### *Flask ETL service Python Migration (Client - PIMCO)*

- Migrated core market data management/Flask codebase from Python 2.7 to Python 3.8, bringing all the latest enhancements with it, and increasing execution speed by up to **20%**.
- Updated the REST endpoints, ORM queries, increased test coverage via Pytest by **50%** and refactored the logic.
- Added logging & monitoring on DataDog and automated testing using Pytest on unit/integration testing.

#### *DataOps (Client - PIMCO)*

- Spearheaded the creation of a web app for live market data quality monitoring, using Plotly, Flask, & JavaScript, thereby reducing manual validation & operations, helping bring monitoring time spent by about **75%**.
- Automated Data Quality checks on the database & helped set up ETL pipeline on various vendors like Bloomberg, JPMorgan, ICE, etc., decreasing user validation and human hours spent by more than **90%** since its inception.

### SKILLS

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**Programming:** Python, Pandas, Pytest, FastAPI, Flask, Jinja

**Database:** Oracle SQL, PostgreSQL, Elasticsearch, AWS Aurora, AWS Timestream

**Tools:** GitHub Copilot, Claude, AWS (S3, EC2, EKS, CloudWatch, Grafana), Git, SVN, Github Actions, Gitlab CICD, AutoSys, Postman, Jupyter Notebook, PagerDuty, Datadog, Splunk, Swagger, Jira, Microsoft Office, Adobe Photoshop

**Soft Skills:** Team leadership, System Architecture, Professional Communication, Agile methodology, Work Documentation

## ACHIEVEMENT

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- Increased project/client profit by about **\$40000** per month through enhancing data delivery speed by 30%.
- Received “On the Spot” award in Townhall Q2-2024 for on time client issue redressal and being one of the highest performers.
- Received “On the Spot” award in Townhall Q1-2022 for excellence in contribution in the team and developing client ready Dashboard in record time.
- **Published research paper** “Krishi: A Price Prediction System” (Paper ID: 151698) in International Journal of Innovative Research in Technology.
- Smart India Hackathon 2020, software division, finalist.
- 1st prize winner in writing competition at IIT Roorkee’s annual fest Thomso’19 and 2nd prize winner in extempore competition.
- **Represented India** in Junior Science Competition at Asia-Pacific level organised at Amity University, Manesar in June 2016, securing podium position.

## PROJECT

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### *Smart India Hackathon*

*December 2019 - August 2020*

### *Jaivik - B2B Agriculture Dealing Portal*

- A B2B website made for the **Govt. of Uttarakhand** where businesses can directly buy from farmers via bidding.
- Farmers can observe their inventory, bidding status and obtain **future predicted market price** of their produce via **SARIMA ML (Machine Learning)** model to check which bid is profitable for them.
- Website Prototype: [xd.adobe.com/view/a7e4a9ad-fd65-4504-8eac-fca504cfb4e1-f2b7/?fullscreen](https://xd.adobe.com/view/a7e4a9ad-fd65-4504-8eac-fca504cfb4e1-f2b7/?fullscreen)

## EDUCATION

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### *Bachelor Of Technology, Computer Science & Engineering*

*August 2017 - July 2021*

Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh (AKTU)