

Pratik Hanamnt Patil

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Professional Summary

Immediate Joiner. Experienced Python Developer/Software developer with 1 year 6 months of professional experience in RESTful API development, Flask-based applications, and automation tools. Strong background in data processing, API integration, and backend logic for scalable systems. Skilled in Flask, FastAPI, Pandas, NumPy, JSON, and OpenPyXL for handling data pipelines and reporting automation. Adept at building reusable libraries like BrixRestConnector and BrixRestNewConnector, and optimizing workflows for better performance. Passionate about AI, Data Engineering, and Cloud Automation.

Core Competencies

Python | HTML | CSS | RESTful API | Flask | FastAPI | Pandas | NumPy | OpenPyXL | JSON | CSV | TensorFlow | Scikit-learn | API Integration | Automation | Postman | Jupyter Notebook | VS Code | PyCharm | GitHub | Data Structures | Debugging | Data Analysis | Problem Solving

Professional Experience

Python Developer – iASYS Technology Solutions Pvt. Ltd., Pune

📅 May 2024 – Present

Worked on multiple Python-based automation and API projects under the reporting and integration teams. Major contributions and tasks completed:

- Task 1: Utilized Pandas for reading/writing JSON files and performing complex DataFrame operations.
- Task 2: Automated transformation of JSON data to Excel using Pandas and dynamically filled formatted Excel templates.
- Task 3: Delivered reusable Python modules for integration into company reporting applications.
- Task 4: Implemented OpenPyXL logic to merge Excel sheets dynamically with meta and document settings.
- Task 5: Managed CSV data tasks – creation, manipulation, insertion, deletion, sorting, and filtering.
- Task 6: Integrated APIs using the Requests library with automated data fetching, retries, and response handling.
- Task 7: Developed and deployed a Flask web server for data services and testing environments.
- Task 8: Built and hosted a complete Flask web app with modular routing and backend logic.
- Task 9: Designed CLI-based automation tools for executing and controlling Python applications efficiently.
- Task 10: Built a dynamic Grade Evaluator System using Python logic for marks-based grading automation.
- Task 11: Created a functional ATM Simulation Application implementing withdrawal, deposit, and transaction logic.
- Task 12: Practiced and implemented Data Structures & Algorithms (DSA) to enhance code efficiency.
- Task 13: Developed a Flask-based RESTful CRUD API using Flask, jsonify, request, and urllib, successfully tested via Postman for end-to-end data communication.
- Task 14: Designed and automated DVP Export Functionality in TML Crash — merged JSON with Excel dynamically, including column and row configuration.

Key Achievements:

- Improved reporting speed and data processing.
- Contributed to Python libraries (BrixRestConnector, BrixCatalogConnector, BrixRestNewConnector) used in multiple production applications.
- Enhanced team workflows by documenting reusable components and optimizing existing scripts.

Key Projects

BrixRestNewConnector (Python Library)

- Built a reusable RESTful API connector for data reporting systems.
- Integrated automation for data fetching and Excel generation.
- Improved API response efficiency and caching by 30%.

GPS-Based Real-Time College Bus Monitoring (NodeMCU)

- Developed an IoT-based system integrating NodeMCU + GPS for real-time tracking.
- Implemented cloud-based data synchronization for location updates.
- Published a research paper in IRJMETs Journal, May 2024.

Flask API Development & Testing

- Designed RESTful endpoints for CRUD operations with JWT authentication.
- Implemented and validated API requests (GET, POST, PUT, DELETE) via Postman.
- Added error handling and performance monitoring for production stability.

Education

🎓 Bachelor of Technology – Electronics & Telecommunication

Nanasaheb Mahadik College of Engineering, Peth | 2024

🎓 Diploma in Electronics & Telecommunication

Nanasaheb Mahadik Polytechnic Institute, Peth | 2021

🎓 Secondary Education

K.B.P. Vidyalaya, Nerle | 2017

Certifications & Achievements

- 🏆 Published research paper: “GPS-Based Real-Time College Bus Monitoring Using NodeMCU” – IRJMETs Journal (May 2024)
- 🏆 Certified in Python for Data Science and Web Development
- 🏆 Developed Python libraries used in production-level applications
- 🏆 Completed projects on Flask API, Cloud Computing, and Real-Time Data Monitoring
- 🏆 Reduced manual reporting time by 40% using automated Python scripts

Additional Information

- ★ **Availability:** Immediate
- ★ **Languages Known:** English, Marathi, Hindi
- ★ **Interests:** Software Development, AI & Machine Learning, Data Engineering, IoT, Cloud Automation