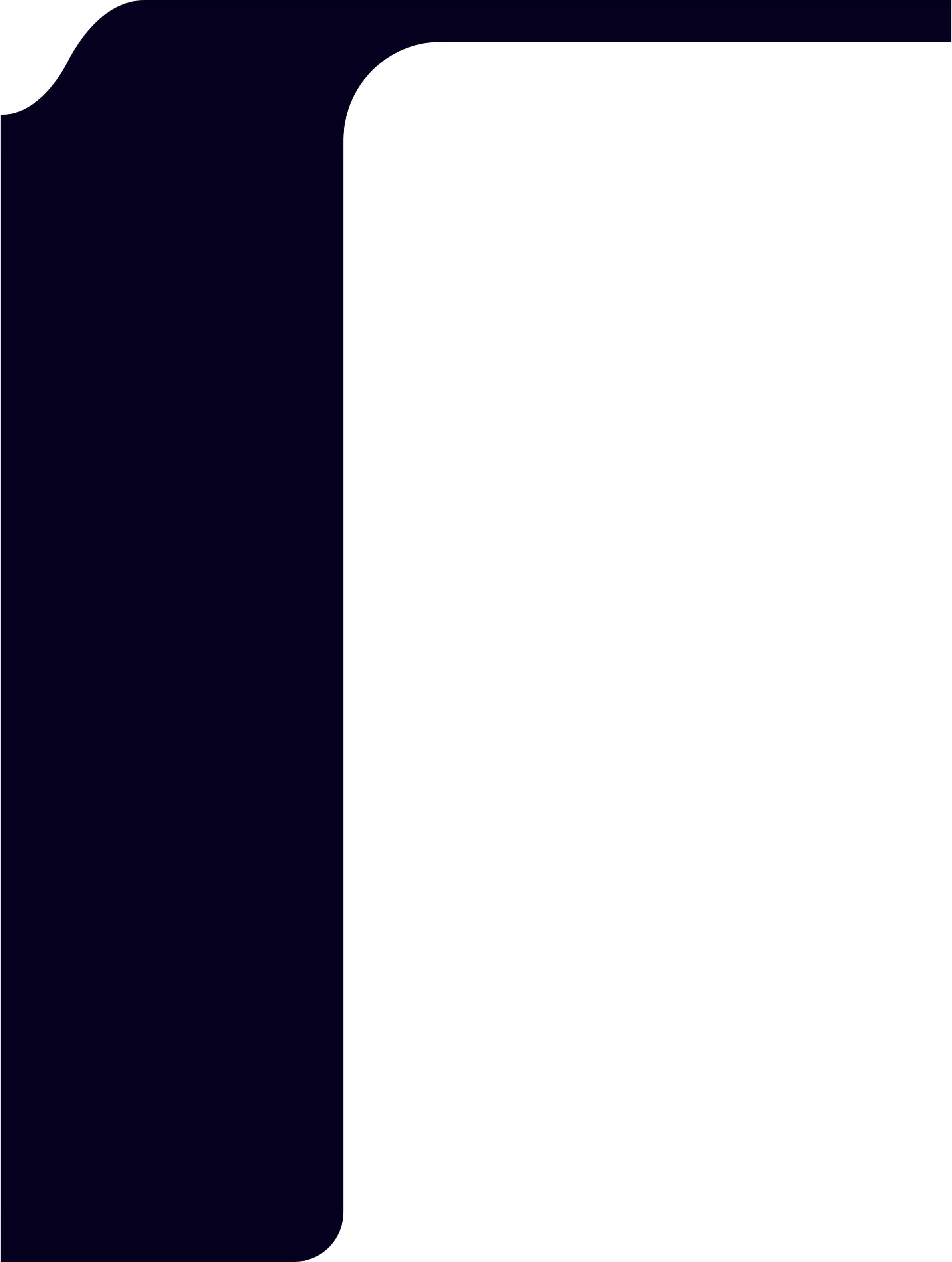
AKSHAY DESHPANDE



# PYTHON ENGINEER

**CONTACT**

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# TECHNICAL SKILLS

* PROGRAMMING LANGUAGES: PYTHON (SCIKIT-
* LEARN, PANDAS,)
* GOOGLE CLOUD PLATFORM: CLOUD RUN,
* DATABASES: MYSQL, MONGODB, BIGQUERY
* TOOLS: EXCEL, GOOGLE SHEETS, GIT/GITHUB,
* Power BI

**PROFILE**

Detail-oriented Python Developer with a strong foundation in automation, data processing, and sensor integration. Leveraging hands-on experience in building efficient, Python-based solutions for real-time data analysis, IoT automation, and prototyping. Seeking to contribute technical expertise and innovation skills to a dynamic team, enhancing process automation and product development through optimized, scalable Python code.

## EDUCATION

**WORK EXPERIENCE**

### Pecten Labs [ Python Engineer ]

* **GPAC Tagging Logic and Classification Framework**

Developed Python-based tagging logic for financial assets, implementing dynamic column mapping and override rules to classify large datasets efficiently, ensuring scalability and alignment with business requirements.

### Configuration-Driven Asset Classification System

Collaborated on a configuration-driven asset classification framework, enabling non-technical updates to rules via configuration files. Provided traceable output with rule IDs for transparent and accurate financial data classification.

### Foley Designs [ Innovation Enginner ]

Aug 2018 – Jan 2022

### Waste Management Vehicle Development

Developed a Python-based waste management vehicle with automated sorting and route optimization, integrating sensors to improve efficiency and sustainability.

### Miniature Duroflex Machine Prototype

Built a Python-coded prototype with automated motors and lights, simulating full-scale operations for improved stakeholder engagement.

### Automatic Hand Sanitizer Dispenser

Created a touchless dispenser using Python, controlling sensors and motors to ensure hygiene, efficiency, and reduced cross-contamination risk.

### Chandelier and Lighting Automation System

Programmed automated chandelier lighting with Python, using sensors for evening activation, enhancing energy efficiency and user convenience.

### UV Sanitization Automation System

Developed a Python-based UV sanitization system with sensors, automating disinfection cycles post-use to enhance hygiene and safety.

### Pothole Detecting Robot

Created a Python-programmed robot with sensors and image processing, automating pothole detection to streamline road maintenance.

### Automatic Plant Watering System

Developed a Python-driven watering system that monitors soil moisture, automatically watering plants to optimize water usage.

### Air Quality Monitoring and Purification System

Developed an air quality monitor with Python, automating purification using sensor data for improved indoor air quality.