

# Ravishankar Gavhane

302 5 A Janranjani  
Nanded City, Pune MH 411041  
(+91) 7774911193  
ravishankar.gavhane@gmail.  
com

I am an experienced Python Backend Developer with 4 years of expertise in building RESTful APIs, microservices, and Python frameworks such as Flask, Django, and Pyramid. My skills in database engineering, data warehousing, and data processing, as well as data analysis frameworks such as SciPy, NumPy, and Matplotlib, enable me to deliver scalable and efficient solutions for clients. I am certified as a Data Analyst and experienced with Spark, Hadoop, AWS, and GIT. My proficiency in PyCharm and VS Code, along with my experience in agile methodologies such as Scrum and Kanban, helps me deliver quality work and collaborate with cross-functional teams. I am passionate about writing clean, maintainable code with strong debugging and troubleshooting skills. My continuous learning and improvement make me an ideal candidate for Python Developer roles.

## EXPERIENCE

### ALPHA ICT IN Ltd , Pune – Python Backend Developer

March 2023 To Till Date

**Project Name:** ALEXA

**Technologies :** ,MYSQL,HTML,CSS,LINUX,JAVASCRIPT,PYTHON,CSS

**Role :** Backend Developer (Alexa)

**Client :** Government Project USA

Proficient in AWS Lambda and the Alexa Skills Kit

Experience with Node.js and serverless architecture Strong understanding of voice user interface design principles, Ability to translate business requirements into technical specifications, Familiarity with AWS cloud services and serverless deployment methodologies

**Responsibility:-** Led the development of voice user interface (VUI) solutions for a government agency, leveraging Amazon Alexa and the robotic platform to improve citizen access to public services and information. Developed custom Alexa skills using AWS Lambda, Node.js, and the Alexa Skills Kit, while ensuring compliance with complex data security regulations and accessibility guidelines for diverse communities. Collaborated closely with government stakeholders, service owners, and other development teams to gather requirements, design intuitive user experiences, and integrate with government service APIs. Conducted extensive user testing with diverse user groups, ensuring maximum usability and inclusivity for all citizens. Worked closely with the robotec development team to ensure successful integration with the robotic platform, providing citizens with seamless access to government services through voice commands on robotec. Demonstrated strong communication skills and technical expertise in presenting VUI solutions to government stakeholders and leadership.

## TECHNICAL SKILLS

### Programming languages

Python, SQL, JavaScript, HTML, CSS,

### Development

PyCharm, VS Code,

### Python libraries

Flask, Django, Microservices, Django-REST-framework, Numpy, Pandas, sqlalchemy, m unittest (DRF-unittest), Pydantic, FastAPI, DRF-spectacular, Swagger, Beautiful Soup, Scipy, Kubernetes cluster Matplotlib, Hadoop, Spark, Pyside2, IoT,

### Tools and systems

Linux (Ubuntu, CentOS, Fedora, RHEL), Git (Github, Gitlab), Docker, Pyc

### Databases & Servers

MySQL, Postgres, MongoDB Atlas, Oracle

### Cloud platforms

AWS, Azure,

### Documentation tools

Confluence, Markdown, Gitbook,

### Delivery methods

Agile/Scrum methodology (JIRA, MIRO, Trello), CICD workflows (github actions,

Stayed up-to-date with the latest developments in voice technology, emerging trends in VUI design and development, and government regulations and guidelines.

## **Infosys Ltd , Pune – Python Backend Developer**

JANUARY - 2019 - To 20 March 2023

Utilize OOP libraries and design patterns to develop maintainable and scalable code. Develop and maintain REST APIs using Flask, Django, FastAPI, and related frameworks Work with AWS Cloud to deploy and manage web applications Write clean, reusable, and well-documented code Debug and troubleshoot issues in the production environment Writing reusable, testable, and efficient code Design, develop, and maintain high-performance backend systems using Python and ORM frameworks. Utilize machine learning and other AI techniques to extract insights from large datasets and improve decision-making. Develop innovative healthcare technology products and solutions to improve patient outcomes. Creating and managing data models using Object-Relational Mapping (ORM) libraries such as SQLAlchemy and Django ORM.

## **EDUCATION**

### **Dr BAMU University of Aurangabad , Aurangabad — M.B.A**

APRIL 2020 - JANUARY 2022

**.Information Technology (IT)**

### **Dr BAMU University of Aurangabad , Aurangabad — B.B.A**

MARCH 2011 - JULY 2014

**Information Technology (IT)**

## **PROJECTS**

### **CasgApps :-**

A Multitenant project to manipulate ERP fallout data to be restored back to ERP systems in an organized fashion and helps improve operations. Remittances of different types were extracted using machine learning models integrated within the Django based API developed by us. My role was to build all the required API's end-to-end. As a part of the requirement I have built an entity extraction module to extract the required entities from the excel files. Supported and participated in the bug for the code which uses CRF techniques. Contributed to requirement gathering, overall development, deployment of API. Efficient and high performing code standards were followed which have been appreciated by the client side. I have also worked as an architectural designer of the entire infrastructure involved.

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## **Machine Learning**

Logistic and Linear  
Regression Decision Trees  
SVM Naive Bayes Neural  
Networks Basics CNN's  
NLP,NL

## **STRENGTHS**

### **Time Management**

Overall, my strength in time management allows me to effectively manage my workload, meet deadlines, and deliver quality work. I am committed to continuously improving my time management skills to ensure that I am delivering the best possible outcomes for my clients and team.

### **Adaptability**

My adaptability allows me to remain flexible and respond to changing circumstances in a positive and effective manner. This enables me to deliver quality work, collaborate effectively with others, and continuously improve my skills to meet the evolving needs of the industry

### **Accountability**

accountability is an essential component of my work as a Python Backend Developer. By taking ownership of my work, maintaining open communication, and adhering to industry standards, I am able to ensure that projects are delivered on time, to a high standard, and that everyone involved is satisfied with the outcome.

## **LANGUAGES**

**English**

### Alexa Robotic:-

Led development of a VUI solution for a robotic platform, integrating Amazon Alexa and developing custom Alexa skills using AWS Lambda, Node.js, and the Alexa Skills Kit. Ensured compliance with complex data security regulations and accessibility guidelines for diverse communities. Collaborated with the robot development team for successful integration of the Alexa skill with the robot platform. Proficient in programming languages such as Python and C++, and experience with libraries such as OpenCV, TensorFlow, and ROS. Developed expertise in voice technology, VUI design and development, and government regulations and guidelines. Developed custom software solutions for controlling the robot's movements and integrated advanced algorithms for navigation and obstacle avoidance. Leveraged machine learning and computer vision expertise to develop intelligent systems for object recognition and tracking, and integrated these capabilities with the Alexa skill to provide a seamless user experience.

### Agent Assist:-

An AI powered search engine which helps operations to improvise operations. Various types of policy docs crawled from multiple data sources were indexed using Elasticsearch and searched through efficiently using advanced search and ranking techniques. My role was to build forms and dynamic web pages to store and display data to the user based on their role. I have built a module using the requests library to retrieve documents from a SharePoint site.

### AIMCIT - Multi lingual Email Advisor :-

The application reads the emails sent by various vendors and will extract the information like invoice details and raise a corresponding query in the incident management system. The application contains various microservices which are connected using dockerized containers. My role in the project is to create a spam classifier machine learning pipeline and I played the administrator role of maintaining the docker containers.

### Other Research Works :-

Along with the projects which are already in production I have worked with the internal research team to improvise the existing applications and to find solutions for the upcoming projects. I have worked on several AI techniques to classify documents, filter duplicates and tried NLU using the rasa framework to build a chatbot.