

Kumarpal Nagar *Python Team Lead*

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👤 Profile

Solution-driven **Artificial Intelligence** and **Python Developer** adept at contributing to highly collaborative work environment, finding solutions and determining customer satisfaction. Have been working on creating Web applications that scale. 6+ years of experience in creating restful APIs and microservices with Python using various web frameworks. Love working on data centric and scalable products to maximize productivity, performance and quickly respond to the changing needs of the business.

👛 Professional Experience

Mindinventory

Apr 2023 – present
Ahmedabad, India

Team Lead

- **Technical Guidance:** I provide technical guidance to team members, help solve technical challenges, and ensure that the team follows best practices and coding standards.
- **Project Planning:** I work with project managers and stakeholders to define project goals, timelines, and resource allocation. They break down larger tasks into smaller, manageable pieces and distribute them among team members.
- **Code Review:** I am reviewing code and ensuring code quality and consistency. I review code submitted by team members, offer feedback, and make sure it aligns with project requirements and coding standards.
- **Mentoring and Training:** I also organize training sessions or provide resources to help team members stay updated with the latest developments in Python.

Jul 2021 – present
Ahmedabad, India

Artificial Intelligence Developer

- **Designing and developing AI models:** I select the appropriate algorithms and techniques for a given problem, as well as design and train the models using data.
- **Testing and debugging AI systems:** I check that AI models are functioning correctly and accurately, and debug any issues that arise.
- **Improving AI performance:** I optimize the performance of AI models, by improving accuracy, reducing computation time, or reducing memory usage.
- **Designed and implemented an algorithmic framework** with a rendering pipeline to import and process sales and repair data using machine learning engineer concepts.

Apr 2021 – Apr 2023
Ahmedabad, India

Senior Python Developer

- Managing trainees, assigning tasks and reviewing/reporting daily progress.
- Managing and interviewing candidates in walk-in drive at organization.
- Attending client communication to collect software requirements specifications (SRS) and feedback, strive to ensure product meet the client's expectations
- Improved application performance and scalability through database optimization and caching.
- Conducting knowledge sharing sessions with colleagues to improve team skills.
- Effectively communicating within an agile software development, involved in client calls to gathering requirements and clarification.

Feb 2019 – Mar 2021
Ahmedabad, India

ALCHES

Python Developer

- Worked closely with other team members to plan, design and develop robust solutions in a timely manner.
- Creating REST APIs with documentation using latest technologies and methodologies.
- Ensuring the best possible performance, quality, and responsiveness of applications.
- Working with Agile methodologies to manage project tasks and timelines.
- Using Git for version control and collaborating with team for successful project delivery.

Jan 2018 – Feb 2019
London, United Kingdom

Nuxetra

Python Developer

- Developing REST APIs for Front-end applications
- Testing and debugging software applications
- maintain and update software applications over time, fixing bugs, adding new features, and improving performance.
- collaborating with other developers, designers, project managers, and stakeholders to deliver high-quality software applications.

Projects

Knowledge Base ChatBot

Technology: Artificial Intelligence (AI), **Langchain**, **TII Falcon LLM**, Pinecone, AWS Lambda, FastAPI.

Details: The Knowledge Base Chatbot is a high-performance conversational AI system built with FastAPI, Langchain, Falcon model, Pinecone, and AWS SageMaker. It offers fast and accurate responses by leveraging advanced natural language processing and scalable vector search. The modular, robust design ensures efficient, scalable, and reliable user information retrieval.

ChatApp

Technology: FastAPI (Microservices Architecture), RocketChat, Redhat Keycloak, Redis, Postgresql, AWS Lambda, EC2, Cloudwatch, Kafka, Docker, CircleCI

Details: The Chat App and User Management System leverages FastAPI in a microservices architecture, integrated with RocketChat for real-time communication. This system ensures efficient and scalable user management, offering seamless and secure messaging features.

Billing Automation API with Azure Form Recognizer

Technology: Azure Form Recognizer | Azure AI | Document Intelligence Studio, AWS Lambda, FastAPI.

Details: The Bill Management App for a shipping company uses Azure Form Recognizer, Azure AI, and Document Intelligence Studio to extract and manage billing information. This system automates the extraction of data from bills, ensuring accurate and efficient processing.

Tattoo Placement App

Technology: Data Labelling, YOLOv5, MakeSense.AI, FastAPI

Details: The Tattoo Placement App uses YOLOv5 for precise tattoo placement on the body, with data labeled using MakeSense.AI. This application ensures accurate tattoo positioning by leveraging advanced object detection and labeled data. It offers a seamless and intuitive user experience for virtual tattoo placement.

Recipe Recommendation System

Technology: NLP-based **Machine Learning** Recommendation System, NLTK, Scikit-Learn, FastAPI, Docker, MongoDB

Details: The Recipe Recommendation System is an NLP-based machine learning application utilizing NLTK for providing personalized recipe suggestions. This system analyzes user preferences and culinary data to recommend recipes accurately. It offers a seamless, tailored cooking experience by leveraging advanced natural language processing and machine learning techniques.

Trading Platform

Technology: Flask (**Microservices Architecture**), Redhat Keycloak, Redis, Postgresql, AWS (Cloudwatch, ECS fargate, Athena), Plaid, Stripe

Scientifically Based Management Strategy Software

data analysis

Technology: FastAPI (**Data Analysis**), Postgresql, Azure, ReactJS

CodeDog

AI Language

Technology: Python, C++, Linux, Windows, AI Library (CMUSphinx, Mycroft AI)

- **Speech-to-text and Text-to-Speech Recognition in C and C++.**

Online Banking Platform

Technology: Python, Flask, Postgresql, **Rasa AI**

Courses

May 2024 California, United States	Generative AI with Large Language Models <i>Coursera</i>
Dec 2023 – Jan 2024 San Francisco, CA	Complete Guide to Elasticsearch 8 with Python <i>Udemy</i>
Oct 2023 California, United States	Machine Learning in AWS - Sagemaker <i>Coursera</i>
Jan 2021 California, United States	Machine Learning Specialization <i>Coursera</i>
Feb 2021 California, United States	Natural Language Processing Specialization <i>Coursera</i>
2017 London, U.K.	Certified Ethical Hacker <i>ec-council</i>
Jan 2015 Ahmedabad, India	Red Hat Certified System Administrator (RHCSA) <i>RedHat</i>

Awards

2023	Innovation Pioneer Award <i>Navatech Group</i>
2023	Best Hidden Mind <i>Mind Inventory</i>
2022	Emerging Mind Of The Year <i>Mind Inventory</i>

Skills

Back End Languages

Python, R

Python Libraries for ML & AI

TensorFlow, PyTorch, Scikit-Learn, SciPy, PySpark, Pandas, NumPy

High & Low Level Languages

C, C++, Assembly Language, Shell Script

Data Visualization

Tableau, Matplotlib

Operating Systems

Linux - Ubuntu, Kali, Parrot, Redhat
Microsoft Windows - 7, 10, Windows Server 2012

Code Repository

Gitlab, Github

Deployment Management

AWS (S3, EC2, Lambda, Athena, Cloudwatch, boto3),
Docker, Microsoft Azure, CI/CD

Python Frameworks

FastAPI, Flask, Django, LangChain

Front End Languages

HTML5, CSS3, Bootstrap, JavaScript

Python Code Tools

PyCharm, VS Code, Tensorboard, Jupyterlab, Google Colab

Database

MySQL, Postgresql, MongoDB, Redis

Project Management Tools

Jira, Notion, Trello, Bitbucket

Dev Methodologies

OOP, Repository Design Pattern, DDD, EDD, TDD,
Waterfall, Agile.

Languages

Hindi



English



Education

2012 – 2014
Ahmdabad, India

B.Sc.(Physics)
K.K Shah Jarodwala

Interests

- Computer Games

Declaration

All the information provided in this resume is true to the best of my knowledge and belief.

Kumarpal Nagar