

# Neha Bhalerao

Pune | bhaleraoneha56@gmail.com | 8530591185 | LinkedIn | Github | LeetCode

## SUMMARY

Motivated and detail-oriented **Software Developer** with **1 year of Trainee experience at Allianz**, specializing in **Python backend development**, **API design**, and **AI-driven automation**. Proficient in **Python**, **FastAPI**, **SQL**, **JavaScript**, and **React.js**, with strong understanding of **data structures**, **algorithms**, and **software engineering fundamentals**. Hands-on experience in developing and maintaining **RESTful APIs**, integrating **SQL/NoSQL databases**, and implementing **RAG-based architectures** for **GenAI** applications. Demonstrated expertise in **backend optimization**, **microservices**, and **cloud technologies (AWS)** with foundational exposure to **DevOps tools** and **Agile methodologies**.

## EDUCATION

**B.Tech (CSE)**, Government College of Engineering, Yavatmal 2021 – 2024  
CGPA: 8.86 / 10  
**Course Work:** Data Structures, Design and Analysis of Algorithms, Operating System, DBMS

## TECHNOLOGIES

**Languages & Concepts:** Python, Java (Basic), JavaScript, SQL, MySQL, OOPs, React.js, Web Development  
**Frameworks & Tools:** FastAPI, RESTful API, Django, Microservices Architecture, PostgreSQL, PGVector, AWS Cloud Services, SDLC, Agile Methodologies, API Testing  
**AI & ML:** Generative AI (GenAI), Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Transformers, BERT, Machine Learning, AutoGen

## PROFESSIONAL EXPERIENCE

**Trainee (I2I – Idea to Impact, GenAI Powered SDLC Platform)** Jan 2025 – Present  
*Allianz Technology*

Gained hands-on experience in **Python programming**, **scripting**, **data ingestion**, and **AI-based project feature testing**. Contributed to the **I2I – Idea to Impact** initiative by supporting the development of a **GenAI-driven SDLC platform** with AI-powered automation tools.

- Enhanced understanding of **Agile methodology (70%)** and gained exposure to **SDLC automation (60%)**.  
text Skills: Python, FastAPI, AWS, Autogen, Redis, LangChain, RAG, PG Vector, Hybrid Search, Git, Agile

**GenAI Lab – Enterprise Productivity Chatbot** (Allianz Technology)

Developed a **GenAI enterprise chatbot** featuring **document upload**, a **marketplace of 100+ AI tools**, and a **shared prompt library**, improving **response accuracy by 25%** through **RAG-based optimization**.

**Skills:** Python, FastAPI, Azure OpenAI, Autogen, LangChain, Redis, RAG, PGVector, Hybrid Search, Git

## PROJECTS

**Birds Audio Detection – Python, TensorFlow, Librosa, Flask**

Developed a **machine learning-based audio classification system** to identify bird species from recorded sounds by implementing **feature extraction techniques** (MFCCs, spectrograms) and training **deep learning models** for accurate multi-class classification.

**Come and Shine Website | React.js**

Developed the website using **React.js** with modular, reusable components, improving scalability, maintainability, and cross-platform responsiveness by 20, while applying responsive design principles and performance tuning to deliver seamless user experiences across 5 devices and 3 major browsers.

## INTERNSHIP EXPERIENCE

**Automation Tester Intern – Cyber Success, Pune, India** Jan 2024 – Sept 2024  
Gained hands-on experience in automation testing using Selenium, Java, and TestNG. Executed test cases, participated in Agile processes, and ensured software quality and reliability.