

Neha Bhalerao

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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%)**.
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.