

# SAMRUDDHI DEVENDRA BHABAD

+91-9588634155    samruddhibhabad@gmail.com    linkedin-samruddhi-bhabad    Sam-1806

## Summary-

As a dedicated Computer Science undergraduate, I thrive on innovation and leadership, having led teams to victory in 6 national hackathons. Skilled in AI-powered chatbots, scalable web architecture, REST and Fast APIs. Proficient in TensorFlow, Python, Django. Passionate about developing AI-driven solutions that push the boundaries of technology.

## Education

### Savitribai Phule Pune University

Bachelor of Engineering in Computer Science, Honours in ML, DS

2021-2025

GPA-8.8/10

## Experience

### AI Intern

August 2024 – Present

### Coneixement India (OPC) Pvt. Ltd.

AI-Driven Career Guidance Platform

- Led the development of an AI-driven career guidance platform for students worldwide, incorporating a dynamic questionnaire and generating comprehensive reports to enhance career decision-making.
- Improved report accuracy by 30% through advanced data analysis and model optimization using TensorFlow and Python.
- Developed RESTful APIs with FastAPI to enhance system scalability and performance by 40%.

### AI Research Intern

September 2024 – Present

### University of Galway, Ireland & IIIT Raipur

RAG-Based System for Natural Language Understanding

- Conducting research on RAG systems and code generation for Android SDK using LLM.
- Directed and fine-tuned transformer models using PyTorch, resulting in a 20% increase in information retrieval accuracy for complex queries.

### Summer Industrial Trainee

June 2024 – August 2024

### Intel Corporation

CLEAR: Contract Language Evaluation and Risk Analysis

- Pioneered an NLP-based system for analyzing and summarizing business contracts, reducing review time by 50% through automated clause classification and risk detection.
- Optimized model performance by 25% by implementing advanced entity recognition and custom preprocessing pipelines using Python and Spacy.

### SDE Intern

May 2024 – July 2024

### Website Vikreta

Web Performance Optimization

- Improved website performance by 40% through the implementation of scalable web architectures and optimization strategies in NextJS.
- Spearheaded an increased deployment rate of 60%
- Created RESTful APIs to enhance backend functionality, ensuring seamless data flow between client and server, resulting in a 30% improvement in response times.

### SWE Trainee

January 2024 – May 2024

### Datanomics Pvt. Ltd.

Backend Systems and API Integrations

- Devised backend systems and API integrations using Java, Node.js, and React, improving application scalability and performance by 40%.
- Implemented RESTful APIs, resulting in a 30% increase in system responsiveness and enhancing code quality, reducing bug rates by 20%.

### AI ML Intern

October 2023 – January 2024

### Varahi Technologies

DivisionQ: AI-Powered Chatbot

- Designed and developed DivisionQ, an AI-powered chatbot using TensorFlow and Python to handle and route queries across diverse business divisions, reducing query handling time by 60%.
- Engineered sophisticated automation and optimized routing algorithms, boosting operational efficiency and enhancing user satisfaction by 25%.

### Intern

July 23 – September 2023

### Materials Info Pvt. Ltd.

Material Recommendation System

- Spearheaded a system to recommend materials based on user inputs such as temperature tolerance and density, enhancing material selection accuracy by 35%.
- Collaborated with cross-functional teams to gather requirements and ensure the system met industry standards and user needs.

## Technical Skills

---

- **Languages/Databases:** Python, C++, SQL (MySQL, Postgres, MongoDB), JavaScript, JavaScript & ETL Frameworks, HTML/CSS
- **Frameworks:** TensorFlow, FastAPI, REST API, Django, Node.js, React
- **Developer Tools:** Power BI, Git, Docker, SharePoint, Postman, Google Colab, Kaggle, Visual Studio Code, PyCharm
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Streamlit, Plotly

## Projects

---

### **Sign Language Translator** | *TensorFlow, Python, Pandas, Django*

- Engineered a CNN model to transform complex ASL gestures into accurate and contextually relevant text to enhance gesture translation accuracy by 40%, leading to a 25% improvement in user interaction within the first three months.

### **Task Manager** | *HTML, CSS, Django, REST Framework, Postman, API Authentication*

[View](#)

- iTasks, a task management web application, that allows users to organize tasks with customizable priorities, deadlines, and progress tracking, along with challenge-based goal setting to boost productivity
- Currently used by over 500 users, contributing to enhanced task completion rates and consistent daily active usage

### **Chest Disease Prediction** | *TensorFlow, Python, Image Preprocessing, Django, RESTful API, MySQL*

- Engineered a GAN model to revolutionize pulmonary disease prediction by synthesizing highly realistic chest X-ray images.
- Curated and preprocessed an extensive dataset of chest X-ray images using TensorFlow, facilitating optimal model training and achieving an 87% accuracy rate in disease prediction.

## Publications

---

- \* **The AI-Zero Trust Alliance: Reinventing Cybersecurity for the Digital Age** ([Elsevier](#) - [Apple Academic Press](#))
- \* **Intelligent Systems for Covid-19: A Comprehensive Review** (Accepted, to be published in Taylor & Francis)
- \* **Advancements in Conversational AI: A Survey of Chatbots and Voice Assistants** (Will be presenting at an international IEEE Conference)
- \* **Career Guidance in the Age of AI: Opportunities, Challenges, and Future Directions** (In communication for IEEE)

## Achievements

---

- \* 3-star coder on CodeChef and LeetCode; 5-star Coder on HackerRank. Secured a global rank of 113 and a national rank of 25; Finalist at PICT Lady Ada Programming Queen Contest
- \* Led my team to win 6 national-level hackathons, till date.
- \* 2nd round finalist at Avishkar- National Research Competition (Ongoing as of now)
- \* 2nd round finalist at DYP Research project Competition(Ongoing as of now)
- \* Contributed to multiple open-source projects
- \* Write Tech Based articles at [Entech Magazine](#)- [Read](#); Resulting in a surge in reading by 42%, ranked 2nd in list of Best STEM magazines of 2024
- \* Multiple certifications- AWS Academy Certification, ML Specialization, Python Specialization