

# BODKE SACHIN

At Post Jahur,Mukhed, Nanded, Maharashtra 491715

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## Professional Summary

- Enthusiastic Python Developer with a solid grasp of software engineering principles and practical expertise with Flask & Django for web applications. Experienced in Python development, object-oriented programming, and building RESTful APIs. CS graduate with practical experience in full-stack development and problem-solving through projects. Dedicated to solving real-world problems through technology.

## Technical Skills

**Languages and Databases:** Python, MySQL, PostgreSQL, MongoDB(Basic)

**Web Technologies:** HTML/CSS, JavaScript(Basic understanding)

**Python Libraries:** NumPy, Pandas, Matplotlib , Scikit-learn, TensorFlow

**Developer Tools:** VS Code, PyCharm, Jupyter Notebook, Git, GitHub

**Frameworks:**Flask, Django (Currently learning)

## Education

**Dr. Babasaheb Ambedkar Technological University, Lonere**

*B.Tech in Computer Science 6.54 CGPA,*

**Pursuing**

*Nanded, Maharashtra*

**Sri Vijay Sai College, Bodhan**

*H.S.C 93.2 Percent*

**April 2020**

*Bodhan, Telangana*

## Relevant Coursework

- |                       |                       |                           |                 |
|-----------------------|-----------------------|---------------------------|-----------------|
| • Data Structures     | • Algorithm Analysis  | • Artificial Intelligence | • Deep Learning |
| • Python Fundamentals | • Database Management | • Machine Learning        | • NLP,CNN,GAN   |

## Projects

**Liver Cancer Detection using GANs | Python, TensorFlow, Flask, SQLAlchemy, CNN, GAN, REST API December 2024**

- Engineered a **GAN-based system improving CT scan quality** for liver cancer detection.
- Increased **classification accuracy from 78% to 92%** and improved **segmentation accuracy (DSC) from 0.68 to 0.85**.
- Enhanced **image clarity (SSIM: 0.72 → 0.91, PSNR: 22.5 dB → 31.8 dB)** for better diagnostics.
- Processed 1,000+ CT images** from LiTS, Sliver07, and IRCADB datasets
- Designed and deployed a web-based diagnostic tool**integrating GAN-enhanced imaging with **real-time analysis**.

**Mood-Based Yoga Project | Python, TensorFlow, Scikit-learn, HTML, CSS, JavaScript, Speech Recognition December 2023**

- Developed a **mood-based recommendation system** using **Audio Sentiment Analysis (85 % accuracy)**.
- Engineered an **interactive front-end interface** for audio & text input, delivering **personalized yoga recommendations**.
- Used **Librosa** for feature extraction and **TensorFlow** for model training, boosting response time by **30 %**.
- Integrated **Firestore** for **real-time data storage**, ensuring seamless user experience.
- Crafted an **intuitive and adaptive UI** with HTML, Bootstrap, and CSS, **enhancing accessibility & responsiveness**.

**Pack Your Bags – Travel Guide | HTML, CSS, JavaScript**

**November 2022**

- Spearheaded the design and development a responsive UI, **improving user engagement by 40%**.
- Optimized website performance and load time**, enhancing navigation efficiency.
- Integrated **seamless booking and search functionalities**,streamlining user journey completion.
- Ensured **cross-device compatibility** using CSS media queries & **responsive design techniques**.

## Leadership / Extracurricular/Achievements

**NSS community**

**Spring 2024 – Present**

*TEAM LEAD*

*MGS's COE, Nanded*

- Directed and mentored an **NSS team of 50+ volunteers**, organizing **10+ programs** and impacting **500+ lives** through social initiatives.
- Led **Smart India Hackathon (SIH) Phase 1 team**, guiding **5+ members** to develop an innovative tech **solution** and clear the **initial evaluation**.
- Led chapter of **30+ members** to work towards goals that improve and promote **community service, academics, and unity**.
- Authored and published a peer-reviewed **research paper** in a peer-reviewed journal, **achieving an 80% improvement**.