

Gaurav Yadav

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SUMMARY

I recently developed a full-stack project using the Python Django framework, where my primary responsibilities included backend development and model design. A key feature of the project was creating 2D QR codes and integrating them with a MySQL database. Additionally, I designed an admin dashboard with various roles and functionalities to streamline app management. During my M.Tech, I conducted extensive research on Electrocardiograms (ECG) and biometrics, focusing on differentiating between normal and abnormal patterns. My expertise also extends to Machine Learning and Deep Learning, where I possess strong programming and problem-solving skills.

EXPERIENCE

• Expert Code Lab Pvt. Ltd

July 2024 - Present

I have 6 months of experience at Expert Code Lab, specializing in backend development with the Django framework. My work includes designing secure 2D QR codes for various applications, including mark sheets. I am skilled in database integration, particularly with MySQL, ensuring seamless data connectivity. I have developed admin dashboards with role-based functionalities for efficient management. My expertise extends to implementing security measures and creating reliable backend solutions. I also have a strong background in Machine Learning and Deep Learning, gained through academic research and practical projects.

INTERNSHIPS

• Machine Learning Research Intern

Researcher

July 2023 - Nov 2023

- This is a research internship where we are asked to implement a research paper based on Human identification using heart beat signals.
- Analyze a research paper on human identification using heartbeat signals, fostering a hands-on approach to academic exploration.
- Tech Used: **Python** | **TensorFlow** | **SciPy**

PROJECTS

• ECG as a Biometrics: ECG Classification ([Github](#))

Aug 2021 - Oct 2023

- Developed an ECG Classification model to identify different types of heartbeats from ECG data
- Performed data preprocessing and feature extraction on ECG signals.
- Implemented a deep learning model to classify heartbeats with an accuracy of 95%.
- Tech Used : **Python** | **Pandas** | **Scikit-learn** | **Matplotlib** | **Seaborn** | **Jupyter Notebook**

THESIS TITLE

• Electrocardiogram as a Biometrics Using machine, Deep Learning

Submitted

- Implemented a **Machine learning-based system** capable of **Heartbeat** from **ECG Biometrics**.
- Architecture design consisted of a pre-trained ECG models aid in diagnosing irregular heart rhythms (arrhythmias) by analyzing ECG waveforms. **Machine** and **Arrhythmia Detection model**.
- Achieved **91.8% accuracy** rate in Heartbeat from ECG Biometrics .

EDUCATION

- **Institute Of Engineering And Technology** Lucknow, India
Master of Technology - Artificial Intelligence and Data Science Jul 2021 - Nov 2023
- **Dr. A.P.J. Abdul Kalam Technical University** Lucknow, India
Bachelor of Technology - Computer Science and Engineering Jul 2017 - Jun 2021

SKILLS

- **Languages:** C, C++, JavaScript, Python, SQL, HTML, CSS
- **Frameworks:** Django, Bootstrap, Numpy, Pandas, OpenCV, Keras
- **Tools:** Git, Github, VS Code, Jupyter Notebooks, Google Colab
- **Databases:** SQL, MySQL
- **Coursework:** Data Structure, DBMS, Algorithm, Machine Learning, Deep Learning