Abhimanyu Singh Baghel

M.Tech.
Computer Science And Information Security
National Institute Of Technology, Warangal

📞 +91-8435015444
✉ abhimanyusinghbaghel2014@gmail.com
⦿ Abhimanyu-SB
in ABHIMANYU SINGH BAGHEL

EDUCATION

•**National Institute of Technology, Warangal (Telangana)** — *2022-2024*
M.Tech. in Computer Science and Information Security — CGPA: **8.62**

•**University Institute Of Technology, RGPV, Bhopal (M.P.)** — *2018-2022*
B.Tech In Computer Science and Engineering — CGPA: **8.15**

•**Christ Jyoti Senior Secondary School, Satna (M.P.)** — *2017-2018*
Central Board of Secondary Education — Percentage: **89%**

EXPERIENCE

•**CISCO** — *Feb. 2021 - Apr.2021*
*Internship On Packet Tracer and **Cyber Security*** — Bhopal
- Learned about ways in which networks are vulnerable to attacks.
- Learned to use various technologies like **packet tracer to simulate attacks** and making a network secure.

•**Defence Research and Development Organisation(DRDO)** — *May.2023 - Curr.*
Part-Time Programmer — Warangal
- Implementation of **Quasi Polynomial Algorithm** for solving the Discrete Logarithm Problem.
- Coordinated with senior team members for collecting data for pre-processing using **parallel computing**.
- Learned the basics of **cryptography** and also explored the region of Mathematics required for implementation.

PERSONAL PROJECTS

•**Heart Attack Risk Predictor** — *Jan. 2022 - May 2022*
*Created a **Machine Learning** model for predicting the risk of getting heart attack.*
- Tools & technologies used: Python, Colab.
- Takes input as parameters like Blood Pressure/Sugar, Weight, Height, Heart Rate, Age, etc. and makes the prediction.
- The User Interface is in form of website which offers further suggestions like doctors, diet, exercises, etc.

•**Fake face detection using Deep Learning** — *Jan. 2023 - May 2023*
*Created a hybrid **Deep learning model** to detect fake faces generated by **GAN**.*
- Tools & technologies used: Python, Google Colab
- It applies the idea of **Contrastive loss** and **Fine tuned transformer**.
- The model first removes the GAN fingerprint of the model to detect fake images with higher accuracy.

•**Art NFT Marketplace** — *Sep. 2022 - Dec. 2022*
*Created a **Decentralized Application** where user can buy and sell their Art **NFTs**.*
- Tools & technologies used: Spring Boot , Angular, Ganache, DBeaver, Remix.
- Worked in backend to write the **smart contract** for the application.
- Helped in building the **REST API** using **spring boot** for creating and listing NFTs.

TECHNICAL SKILLS AND INTERESTS

Languages: Python, JAVA(**Data Structures & Algorithms, Object Oriented Programming**), C, C++, HTML, Solidity
Developer Tools: Intellij, Colab, Net Beans, Office, VS Code, PyCharm
Frameworks and Libraries: Spring Core, Spring Boot, Scikit-learn, TensorFlow, Keras
Databases: MySQL
Soft Skills: Adaptability, Communication, Critical Thinking, Time Management, Team Player
Areas of Interest: Operating System, Database Systems, Computer Architecture, Blockchain, Cryptography

POSITIONS OF RESPONSIBILITY

•**Head Boy,** Christ Jyoti Senior Secondary School — *Apr. 2017- Apr. 2018*

•**Branch Representative,** Computer Science & Engineering, NIT Warangal — *Aug. 2023-Curr.*

HOBBIES & INTERESTS

• **Chess**

• **Travelling**

• **Astronomy**