

# Umang Kumar

*Github:* [Umang-Kumar](#)  
*Leetcode:* [Umangasauras](#)  
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## EDUCATION

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- **Army Institute of Technology** Pune, India  
*Bachelor of Engineering - Computer Engineering; SGPA: 8.57* 2020 - Present  
*Courses: Operating Systems, Computer Networking, Object-Oriented Programming*
- **Rashtriya Military School** Belgaum, India  
*Matriculation(10th): 9.6 CGPA* 2012-2019  
*Intermediate(12th): 81.4%*

## SKILLS SUMMARY

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- **Languages:** Python, C++, HTML, SQL
- **Frameworks:** Django, Flask, NumPy, Scikit-Learn, TensorFlow, Bootstrap
- **Tools:** Git/GitHub, MySQL, MongoDB
- **Platforms:** Linux, Windows, GCP
- **Tech Skills:** Web Development, Machine Learning, Data Structures and Algorithms, Database Management System
- **Soft Skills:** Team Player, Event Management, Content Writing, Public Speaking

## EXPERIENCE

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- **Microsoft** On-Site  
*Ex-SDE Intern* April 2023 - May 2023
  - **MCE:** Joined the Microsoft Classification Engine, 9-member team which falls under the umbrella of security.
  - **Project:** Collaborated closely with a mentor to experiment and fine-tune the current Boost-regex engine in the MCE to increase the efficiency of SIT classification.
  - **Results:** Perf tests showed that the HyperScan Regex engine was able to classify the bigger text files at a faster rate than the previous regex engine (43% on files sized 8mb+).

## PROJECTS

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- **AgriCure (Web Development):** This project was made for GFG's Solving for India Hackathon (Google x AMD) 2023. Our aim was to help farmers, by giving them means to detect the crop diseases. Led the development of the backend architecture. First, a Leaf is detected using a YOLOv8 model(0.7 IOU) and then classified using Transfer Learning (94.35%).  
Tech Stack: ReactJs, Django, Tensorflow, Keras, GCP (Apr'23)
- **XtraBlog (Web Development):** Created and deployed a complete micro-blogging website implementing all the CRUD features, Search & Comment functionality at the highest of security standards.  
Techstack: Django, SQLite, Bootstrap (Jan '23)
- **Blockchain Explorer (Smart Contracts, blockchains):** Built blockchains with POW(Proof of Work) concept, understood working of cryptocurrencies and smart contracts, and finally deployed a blockchain interface on HuggingFace with Gradio.  
Techstack: Python, OpenCV, Gradio, Solidity (June '22)
- **Steganography (Image Processing, Cryptography):** Designed and implemented a console-based steganography program. Achieved a data hiding rate of 1.36% while maintaining the visual quality of images. This program can seamlessly encode text and image files into images, with a capacity to embed files up to 1280 bytes in size.  
Techstack: Python, CV2, OS (August '21)

## ACHIEVEMENTS

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- Qualified among top 150 out of 43,137 participants for the IET India Scholarship Award, 2023
- Qualified for the Regional Finals of GFG's Solving for India hackathon, 2023
- Solved over 500 questions on various coding platforms.
- Served as Joint Secretary at AIT ISDF Club in 2nd year, 2022
- Achieved 3rd position in the AIT's Hide&Seek CTF, 2021
- 1st Position in RMS Pentangular Debate, RMS, Ajmer

## COURSES

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- [Machine Learning Specialization, by DeepLearning on Coursera, 08/2023](#)
- [Django Web Framework, by Meta on Coursera, 03/2023](#)
- [Crash Course on Python, by Google on Coursera, 08/2021](#)