Shashi Kumar

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Location - Kanpur, Uttar Pradesh, India
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Integrated B.Tech & M.Tech - Information Technology
imt_2019090@iiitm.ac.in

Indian Institute Of Information Technology, Gwalior
Portfolio | Github | Codeforces

LinkedIn | LeetCode | Codechef

EDUCATION

- **Indian Institute Of Information Technology, Gwalior, India** — *Bachelors and Integrated Masters in Technology*
  Information Technology (CGPA - 7.3) — 2024(expected)
- **Guru Har Rai Academy Kanpur, India** — *ISC-High School*
  Science (87%) — 2019

PUBLICATIONS

- **Utilizing Transfer Learning for Crop Suggestions and Plant Disease Identification** — *April 2024*
  Authors - Shashi Kumar & Anuraj Singh — **IATMAI'24** (IEEE)

EXPERIENCE

- **UtorLabs** — *May. 2023 - July. 2023*
  Internship — Remote - India
  - Worked on Elastic Stack and Django. Connected **Elasticsearch** with **PostgreSQL** using **python script and Logstash**.
  - Performed visualization and analysis of data in **Kibana**.
  - Integrated **Django with Freshdesk**. Created Tickets API file to perform **CRUD** operations on Fresh desk tickets.

AWARDS AND ACHIEVEMENTS

- **5 stars at Codechef**: [Rating-2125]
- **Expert at Codeforces**: [Rating-1691]
- **Google Kickstart Round A 2023**: [Rank - 575th worldwide]
- **Google Kickstart Round D 2023**: [Rank - 605th worldwide]
- **Google Kickstart Round C 2022**: [Rank - 623rd worldwide]
- **Codeforces Round 753**: [Rank - 208/26k]
- **Codechef Starters 100 (Div 2)**: [Rank - 80th worldwide]

PROJECTS

- **Saathi | AI based agriculture utility website** — *April, 2023*
  Web Development & ML | Tensorflow, Keras, Flask, Bootstrap, SQL, Docker, Nginx — Github
  - Implementing crop recommendation system and plant disease identification in a web platform
  - Used **random forest** for classification task with an accuracy of 99.7%
  - Implemented **EfficientNetV2** image classification with an accuracy of 95.4%
  - Deployed webapp using **Flask** in a containzerized environment using **Docker**
- **bWall | Anonymous Image-based bulletin board** — *November, 2021*
  Web Development | Flask, Bootstrap, SQL, Vanilla JS — Github
  - Created a 4chan like website where users can **post images anonymously** and comment on other users posts.
  - Created the project with proper **software development life cycle (SDLC)** and performed **backend unit testing**.
- **CovidRecognizer** — *December, 2020*
  Image processing, Deep Learning | OpenCV, NumPy, Pillow — Github
  - Created a **image processing pipeline** for **biomedical image classification** and **segmentation**.
  - Used image processing techniques such as **CLAHE**, **binarization**, **dilation**, etc.
  - Implemented UNet for segmentation and achieved an accuracy of 82%

TECHNICAL SKILLS

- **Programming**: C/C++, Python, JavaScript, ReactJS
- **Database**: SQL, MySQL
- **Tools/Frameworks**: LaTeX, Git, Tensorflow, PyTorch, OpenCV
- **Web Development**: HTML, CSS, Flask/Django
- **Operating Systems**: MacOS, Windows, Linux
- **Coursework**: OS, CN, DBMS, Cloud Computing, COA, Machine Learning, Deep Learning

POSITIONS OF RESPONSIBILITY

- **Google Developers Student Club | Design Head (2020-21) | Android Head (2021-22)**, IIIT Gwalior.
- **Problem Setter (2022 - 2023) | AASF(Technical Club) | HacktoberFest Mentor**, IIIT Gwalior.