SHASHVAT SINGHAM

SENIOR UNDERGRADUATE · PHYSICS
Indian Institute of Technology, Kanpur

☐ (+91) 840-007-8677 | ✉ shashvat.singham@gmail.com | ⌂ www.shashvat-singham.ml | ⬡ shashvat-singham | ⬛ shashvat-singham

EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution	CPI / %	Honours
2020 – 2024	B.S , PHYSICS	Indian Institute of Technology, Kanpur	6.4 / 10.0	
2019	CBSE – XII	Archies Higher Secondary School, Kanpur	94 %	School Topper
2017	CBSE – X	Air Force School, Kanpur	10.0 / 10.0	School Topper

PROJECTS

Data science : Tweet Emotion Recognition
Jan'22 - Feb'22

- Using a **Tokenizer** in **TensorFlow** and Padding and Truncating Sequences.
- Creating and Training **Recurrent Neural Networks.**
- Using **NLP** and **Deep Learning** to perform Text Classification in a dataset of **20,000 tweets**.

Portfolio Website
Aug'21 - Nov'21

- Made a portfolio website **hosted on IIT Kanpur homepage** using HTML , CSS and JavaScript.
- Use Bootstrap to **optimize** for **loading speed** and performance.
- Enhanced **web functionality** and **responsiveness.**

Python Compiler
Jan'22 - Feb'22

- Use **Tkinter** to create Graphical User interfaces (GUIs) and all standard Python Distributions.
- All the commands are **tokenized** in **parsed tree** using Tkinter text editor.
- Extended the compiler to generate **3-address code(3AC)** .
- Provided support for functions, classes etc and generate .

IIT Kanpur Student Search
Jan'22 - Feb'22

- Made a website that scraped the data from the Office Automation Portal .
- Use SSl VPN to access (If outside the campus) the information of all IITK students.

Machine Learning : Neural style Transfer
Jan'22 - Mar'22

- Load pretrained **VGG-19 model (Convolutional Neural Network)** ;Extract content and style features.
- Create style and content loss function and minimize the total loss to generate **minimize total loss artistic style image**.

Mobile App
Nov'21 - Jan'22

- Built a fully-functional **notes app** that runs on **android** , **ios** and **web** ; also it **stores notes locally to device.**
- Allow the user to **change** the **theme** from **dark to light** also **shows stats** of user's notes such as **total notes**, **words written** etc.
- Allows User to **pin notes** and **edit notes.**

WORK EXPERIENCE

God's Fire Fellowship Trust
Kanpur (Remote)

FRONT-END DEVELOPER INTERN — *Oct'21 - Dec'21*

- Standardized all output with a new, **responsive, mobile-first approach** and strategy.
- Collaborated with product team members to implement new feature developments using HTML , CSS, Java script and bootstrap.
- Assessed UX and UI designs for technical feasibility.
- Implemented new responsive, mobile-first approach which increased mobile traffic by **20%.**

SKILLS

Proficient	C++ , Python , HTML , CSS , Javascript
Experienced	C , Java , R , GNU Octave , Mysql , SQLite
Exposure	Java , Kotlin , XML , Microsoft Azure
Frameworks	Django , Flutter , Bootstrap , Vue.js
Utilities	React Native , Git , Tensorflow , Pytorch , Scikit-learn , MongoDB , OpenCV , LaTeX , Linux

SCHOLASTIC ACHIEVEMENTS

2020   **All India Rank 2628**, JEE Advanced
2020   **All India Rank 3103**, JEE Mains
2019   **All India Rank 223**, JEE Mains (B.Arch / B. Planning)
2019   **All India Rank 4104**, JEE Advanced
2019   **All India Rank 2995**, JEE Mains
2018   **All India Rank 189**, National Aptitute Olympiad (NAO)
2018   **All India Rank 254**, National Mathematics Olympiad (NMO)
2017   **All India Rank 403**, National Talent Search Test (NTST)

POSITIONS OF RESPONSIBILITY

- **Campus Ambassador**, *Tryst , IIT Delhi*   Jan 2022 - April 2022
  Help the coordinators of IIT Delhi in spreading awareness of **Tryst , Technical Festival of IIT Delhi** among **IIT Kanpur** students.

- **Senior Executive** *, Show Management, Techkriti, IIT Kanpur*   Jan 2021 - March 2022
  Help in successfully conducting the Shows and Events like ROBO Games , Technocruise ,TOSC etc in **Techkriti (Asia's Largest Technical and Enterpreneural Fest)** at **IIT Kanpur**.

- **Secretary**, *ROBOGAMES, Techkriti , IIT Kanpur*   March 2022 - April 2022
  Help in successfully conducting the ROBO Games (one of the most eye catchy event) in **Techkriti (Asia's Largest Technical and Enterpreneural Fest)** at **IIT Kanpur**.

- **Volunteered as Assistant Placement Coordinator ,** *Student Placement Office (SPO), IIT Kanpur*   Dec 2021 - Jan 2022
  Help in scheduling the placements interviews of the students graduating in 2022 of various companies like JLR , EXL , Bajaj Auto etc.

RELEVANT COURSES

Introduction to Programming	Machine Learning(∗)	Cryptography (∗)
Blockchain (o)	Data Structures and Algorithms (∗)	Probability & Statistics
CyberSecurity (o))	Data Science with R programming (o)	Linear Algebra & ODE

∗ *: Courses by* **Stanford University**   *i: In progress*   *o: On online platforms like Coursera , Edx etc.*

MISCELLANEOUS

- **National Cadet Corp** (Air Force **NCC**) **A Level** Certificate of **UNIT 03 UP AIR SQN NCC.**

- Participated in **Covid-19 testing** in college Campuses by **Harvard Medical School (HMS).**

- Attended **Microsoft's AI Classroom** Series.

- Contribute to some **open Source** projects like **openemr** etc.

INTERESTS

- Open Source Contributions

- Competitive Coding

- Image Processing

- Machine Learning

- Web Development

- Artificial Intelligence

- Robotics