Somya Tomar

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EDUCATION

Indira Gandhi Delhi Technical University for Women   **Passing Year-2023**
B.Tech (Information Technology)
Grades: **8.93/10 (up to 4th Sem)**

Indraprastha International School   **Passing Year-2019**
Grades : **Class 12- 92% (Non-Medical stream)**
       Class 10- 10 CGPA

EXPERIENCE

IIT Ropar iHub- AWaDH Internship   **May 2021 - Jul 2021**
IoT and ML Product Development Intern (Hardware and Software)-
• Designing IoT and ML-based smart hydroponics systems for Urban farming

Cisco thingQbator Cohort 4- Learning Track   **May 2021 - Present**
Team Project Development (In top 80/1500 teams) -
• Crime Analysis From CCTV footage using deep learning.

The Script Foundation   **Jan 2021 - Present**
Technical Writer and Blogger-
• Create blogs on the latest technology. Covered IoT, ML/AI and Blockchain.

The Sparks Foundation   **Dec 2020 - Jan 2021**
Mobile Development Intern-
• Developed Bank Transaction App using Room Persistence Library & SQLite.

PROJECTS

Scribel - Multilingual, Speech-to-text transcription website (Wolfram Award Winner- Team Project)
The website has two main functionalities:
1. Convert an audio file (of any language) into text.
2. Translate the text generated from audio.
Backend- Used Microsoft Azure cognitive services to implement speech-to-text transcription functionality.
Frontend- HTML, CSS3, Bootstrap

Crime Analysis From CCTV footage using deep learning (Team Project)
Used OpenCV Yolov4 to detect objects in the frame, applied optical flow-OpenCV deepflow, implemented KNN for AnomalyDetection, AUC of 0.82 (approx)on ped2 dataset.

Source Code Plagiarism Detection System (ACM-IGDTUW, Ongoing)
Used NLP Techniques and hash tables to study the behaviour of python source code which acted as a distinguishing feature to determine the level of plagiarism.

PROFESSIONAL CERTIFICATES

• Matlab: Simulink, Machine Learning, Deep Learning, Reinforcement Learning
• 30 Days Of Google Cloud Challenge: Cloud Engineering Track 2020
• IGDTUW- Anveshan Foundation: Innovation and Entrepreneurship
• ACM-IGDTUW: Computational Techniques for Social Good Using Machine Learning
• Cisco Boost Program: Computer Networking Concepts

AWARDS AND ACHIEVEMENTS

• Selected in **Flipkart Runway 2021** (Ranked in top 154 out of 14487 participants)
• The virtual **GHC Scholarship** Award 2021
• **WeTech Goldman Sach Mentorship** Award 2021
• **Toycathon** National Finalist 2021 organized by the **Ministry of Education, India**
• **Wolfram Award** 2021(in top 11/650 participants)at TechTogetherSeattle hackathon
• **KPMG Ideation Challenge** Virtual Prelims Finalist 2021 (In top 420/12000+ teams)
• **Best Student Award 2017** by Dwarka City Newspaper

SKILLS

Languages:
Java • Kotlin • C/C++ • Python • XML • HTML/CSS • SQL • Bootstrap • JavaScript

Technical Domains:
Android Development • IoT • Machine Learning and Artificial Intelligence • Google Cloud Computing • Web Development (Frontend)

IT Constructs:
Data Structures and Algorithms • OOPs • DBMS • OS • Design and Analysis of Algorithms

Development and Deployment Tools:
MATLAB • Android Studio • GCP • Arduino

POSITION OF RESPONSIBILITY

Lean In, IGDTUW- App Development Mentor(Sep 2021-Present):
• Responsible for teaching and clearing doubts, designing and delivering effective lectures, give hands-on tutorials for project development and review code of 30+ students.
• Technologies Used: Java, XML, Kotlin, SQLite, Firebase, etc.
WiMLDS- Event Organiser Volunteer(Mar 2021-Present)
ASMET OSA- Anchoring and Creative Team(Jan 2020)

OPEN SOURCE CONTRIBUTIONS

• **OSD vGHC'21 Open Source Contributor at Eclipse Adoptium**- Enhanced a function to do format check to find the illegal parameters at the early stage instead of when doing the git clone, added option to pass in openj9 systemtest repo and branch
• **Hacktoberfest 2021 Contributor at Code Thesaurus**- Documented Java OOPs concepts with code snippets.

ADDITIONAL INFORMATION

Qwiklabs: https://cutt.ly/6lA1VNc
Devpost: https://devpost.com/somyatomar15
StackOverflow: https://bit.ly/2Sip0ay
Quora: https://bit.ly/3fHqwLk

INTERESTS

Swimming, Athletics, Astronomy, Anchoring
• National level swimmer(ranked 5th fastest), won 53 state-level medals and 10 National achievements
• Done anchoring at International Conferences like ASMET'20
• National Astronomy Olympiad Rank 77