Shreyash Srivastava

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Technical Skills:

- ❖ **Programming Language -** Python (Libraries - Pygame, OpenCV, Numpy, Pandas, MediaPipe) , C++ , Java
- ❖ **Full Stack Web Development -** HTML, CSS (TailwindCSS,BootStrap), JavaScript (React, Next.js), MERN Stack, MongoDB,Firebase, APIs
- ❖ **Internet of Things (IoT) -** Wireless Sensor Networks,Clustering Protocols,LEACH, HMPBC, EEHMCS Data Routing Implementation,Omnet++,Matlab
- ❖ **Machine Learning -** Supervised and Unsupervised Learning, Decision Trees, Neural Networks, LSTM, CNN models.
- ❖ **Others -** Git/Git-Hub, CI/CD

EDUCATION			
Board	**Tenure**	**Educational Institution**	**CGPA/Percentage**
B. Tech (CSE)	September 2023 – Ongoing	VIT Bhopal University, Bhopal	9.03/10
Class XII	May 2022	St. Joseph School, Jaunpur	87/100
Class X	May 2020	St. Joseph School, Jaunpur	95/100

PROJECTS AND CONTRIBUTIONS	

Web Development	▪ **Web Development with Full-Stack Approach**
	- Description: Developed **multiple dynamic and visually appealing web applications** using a **full-stack approach**. Key contributions include but are not limited to:
	  Brainitix: Contributed to the development Brainitix, a hub of various AI-driven platform.
	  Android Club Website: Designed and built the official website for VIT Bhopal's Android Club.
	  AcWoC: Developed a platform for a month long open-source program of the Android Club.
	  HelpOpsHub: Designed and implemented backend services, enhancing scalability and user experience.
	  PosturePerfect: A fitness solution leveraging advanced computer vision for real-time exercise form correction.
	  ProdEase: A centralized platform for managing products in a fictional company, featuring authentication and cloud storage.
	- Technology: JavaScript, HTML, TailwindCSS, Next.js, React.js, Three.js, Node.js, Express.js, MongoDB, Firebase, JWT, Machine Learning, Python
	- Team Project: Yes
	- Results: **Collaborated in 25+ Web Based Projects** with **150+ PRs.**

Game Development	▪ **Game Development using Unity Game Engine** - Description: Developed an immersive 3D first-person shooter game that secured the **runner-up** position in the **VRGC Game Jam**. - Technology: Unity, C# - Team Project: No - Role: Game Developer - Link and Results: Aerostrikesteel Warriors

Machine Learning	▪ **Machine Learning & IoT-Based Smart Glasses for Visually Impaired**
	- Project: ArthDhristi – A Simple ML/IoT-based smart glasses system designed to perceive the user's environment and generate real-time responses. Features include:
	  - Real-time Reading: Converts text from the user's surroundings into speech.
	  - Object Detection: Identifies and announces objects in the environment.
	  - Smart Assistance: Provides contextual feedback for enhanced accessibility.
	- Technology: Python, TensorFlow, OpenCV, ESP32 Cam and Wifi Module, Flask, Firebase
	- Team Project: No

EXPERIENCE	

IIT-BHU	▪ **Summer Intern at IIT-BHU -**
	- Role: Summer Intern
	- Key Contributions:
	  - Implemented **Hybrid Multihop Partition-Based Clustering** (HMPBC) Routing Protocol in **OMNeT++** and **MATLAB** for **Wireless Sensor Networks** (WSN).
	  - Conducted **comparative analysis** of **HMPBC** with **LEACH** protocol, evaluating energy efficiency, network lifetime, and data transmission reliability.
	  - Optimized clustering
	- Tech Stack: WSN, Networking, Clustering Protocols, C++, OMNeT++
	- Impact: Demonstrated 30-40% improvement in network lifetime over LEACH in simulated environments.

GirlScript Tech	▪ **Full Stack Intern at GSSoC'24 Extd. -**
	- Role: Full-Stack Developer
	- Key Contributions:
	  - Developed the **registration system**, handling **28K+ registrations** efficiently.
	  - Built Campus Ambassador and Contributor **Leaderboards Servers**, optimizing data handling and ranking logic.
	  - Developed and enhanced pages like Sponsors and Updates for a seamless user experience.
	  - Contributed to both frontend and backend, implementing critical features for scalability and performance.
	- Tech Stack: Next.js, MongoDB, Node.js, ExpressJS, Github
	- Impact: Improved platform performance, user engagement, and streamlined operations for thousands of contributors

Android Club VITB	▪ **SDC Lead – Android Club VITB** - Led the **Software Development Cell (SDC)** of Android Club VIT Bhopal, driving technical projects and mentoring team members. - Spearheaded the development of the official club website, improving engagement and accessibility. - Organized and Led **AcWoC 2025** an open-source initiative by the Club, fostering a culture of collaboration and learning in the Campus with **500+ Participants**. - Worked on cloud infrastructure and backend solutions to support club projects. - Utilized Reactjs, Firebase, and other web technologies to build scalable solutions.
Brainitix	▪ **Web Application Architect - Brainitix -** - Led the development and management of the main website for **Brainitix**, ensuring alignment with project goals and timelines. -Designed and implemented full stack components for Brainitix's tools, including **Error.ai and Talker.ai.** -Coordinated with cross-functional teams to deliver high-quality solutions, from initial concept through to deployment.

RESPONSIBILITIES AND ACHIEVEMENTS	
Achievements	▪ Among the **Top 25** contributors in **GSSoC'24** which had over **24000+** registrations and **2500+** active contributors from **15+ countries** ▪ **Runner-Up** VRGC Game Jam 2023
Responsibilites	▪ **Intern**, Girlscript Tech ▪ **Lead** , Software Development Cell, Android Club, VIT Bhopal

ADDITIONAL INFORMATION	
Hobbies	▪ Passionate about designing,arts and crafts which fosters creativity, attention to detail, and a strong work ethic. ▪ Enthusiastic about football, which enhances teamwork, strategic thinking, and resilience.
Languages	▪ **English (Fluent), Hind (Native)**