**KAAMYA MATHPAL**  
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**🔥 PROFILE SUMMARY**

Innovative and detail-oriented technologist with a passion for human-centered design and emerging technologies. Proven ability to merge electronics and AI to build impactful solutions. Skilled in collaborative development, quick prototyping, and communicating technical ideas with clarity and confidence.

**🎓 EDUCATION**

**B.Tech in Electronics (VLSI) Engineering**  
Thapar Institute of Engineering & Technology, 2024 – 2028  
📌 CGPA: 7.0 | Core Team Member – Oorja (Tech Society)

**💼 EXPERIENCE**

**Electronics & Computer Science Intern**  
**STMicroelectronics**, June 2024 – July 2024

* Designed and implemented a Gesture Alertness System integrating OpenAI APIs with embedded platforms.
* Developed modular, efficient code with 95% performance accuracy.
* Utilized tools such as STCubeMX, STCubeIDE, and ST development boards/chips for embedded programming.
* Collaborated with cross-disciplinary teams to optimize software-hardware integration.

**💻 SKILLS**

**Programming & Tools:**  
Python, Git, Figma, Canva, STCubeMX, STCubeIDE, VSCode

**Technical Strengths:**  
Problem Solving, Embedded Systems, UI/UX Design, Rapid Prototyping, Version Control

**Soft Skills:**  
Leadership, Teamwork, Communication, Time Management, Creative Thinking

**🚀 PROJECTS**

**🧠 Gesture Alertness System**  
→ Built a real-time alertness detection system using gesture inputs and AI integration. Leveraged ChatGPT, STCubeMX, STCubeIDE, and VSCode for system design and interface logic. The project demonstrated high efficiency and practical application in automation and driver-safety scenarios.

**🎨 INTERESTS**

Badminton | Creative Writing | Music & Audio Journaling | Physical Wellness & Outdoor Activities