GAURAV KUMAR
BTech. in Electronics and Communication Engineering
School of Studies in Engineering and Technology,
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NAAC A++ Accredited

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Degree	University/Board	Institute	Year	CGPA / %
B.Tech. (ECE)	GGV, Bilaspur	School of Studies of Engineering and Technology, GGV Bilaspur	2026	8.70 (up to 6th sem)
Intermediate (12th)	CBSE	Sri Chaitanya Techno School, Visakhapatnam	2020	85%
Matriculation (10th)	CBSE	BD Public School, Hajipur	2018	84%

EXPERIENCE _____

Fact App | Edtech Platform | June 2023 – July 2023
- Joined fact app as growth mentor and student mentor and at the end of internship, got the stipend of 50k.
- Counseled 120+ students on diverse college options, application procedures, and potential career paths, leveraging insights from EDUGLE experience to provide personalized guidance and support to students directly.

KEY PROJECTS _____

BER vs SNR Analysis for Wired & Wireless Channels | MATLAB, Simulink | 2025
- Modeled Bit Error Rate (BER) vs. Signal-to-Noise Ratio (SNR) for wired and wireless communication channels using MATLAB and Simulink.

Verilog Logic Gates Implementation | Verilog HDL | 2025
- Implemented synthesizable Verilog modules for **basic digital logic gates** (AND, OR, NOT, NAND, NOR, XOR, XNOR) with functional verification using testbench simulations, strengthening fundamentals of **RTL design and digital electronics**.

Dhun 1.1 – The Music Analyzer | Python, CNN, NumPy | Dec 2024
- Upgraded the system with CNN-based music transcription using CQT and STFT, trained on 19,000+ MIDI samples for accurate note extraction and real-time inference.

Dhun – The Music Analyzer | Python, Librosa, NumPy, Tkinter | Aug 2024
- Implemented MFCC, DTW, and FFT algorithms to extract 8 key musical features from audio compositions, which are used to classify music with up to 90% accuracy.

ACHIEVEMENTS _____
- Bagged a stipend of 50k in first year during Fact App internship.

TECHNICAL SKILLS, COURSES AND CERTIFICATIONS_____
- *Languages:* HTML, CSS, Java script, ReactJs, Python, Verilog, HDL, MATLAB
- *Tools, Framework, Software:* VS Code, Jupyter Notebook, Vivado, LtSpice, GitHub, MATLAB, Wordpress, Proteus, Canva, Adobe
- *Certifications:* Introduction To Internet of Things (NPTEL – IIT KGP), Data Analytics (SWAYAM – NITTTR), Introduction to Intellectual Property (SWAYAM – IIT KGP)
- *Core Courses:* Network, Signal and System, Electronic Devices and Circuit, Digital Electronics, Analog Electronics, Communication, CMOS VLSI Design, Digital Signal Processing, Linear Integrated Circuits
- *Trainings and Workshops*: RTL Design Workshop (KT Semicon), RTL Design and Verification (The Silicon Sandbox), VLSI for Beginners (NIELIT Calicut), MATLAB Onramp (MathWorks)
- *Soft Skills*: Content Writing, Designing, Leadership and Management, Problem Solving

EXTRACURRICULAR _____
- Associated with **National Service Scheme** (NSS), GGV Bilaspur, to promote sustainability. [2022-2025]
- Content Manager lead at **Equlibrio** presents Solasta- Techfest BTech GGV. [2023]
- Content Team Lead at The Flip Flops (ECE Department Official Newsletter) [2024]
- Student Coordinator **at The Flip Flops** (ECE Department Official Newsletter) [2024-25]
- Student Helping Platform EDUGLE (2020- 2024)