Bhanu Jahnavi Gottumukkala

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Professional Summary

Passionate and detail-oriented Electronics and Communication Engineering student with strong skills in web development, machine learning and competitive programming. Experienced in building full-stack applications and research projects involving AI and computer vision. Proven leadership and teamwork abilities demonstrated through campus roles and competition achievements.

Education

- **National Institute of Technology, Raipur**   (2022–2026), **CGPA: 9.22 / 10**
  Electronics and Communication Engineering

- **Sasi Junior College**   (2020–2022), **Percentage: 96%**
  Intermediate Education

Experience

Research Intern – NIT Warangal (May–July 2024)   Link

- Designed and implemented a machine learning model for image dehazing using CNN and GAN architectures, achieving SSIM improvement of 0.85 and PSNR gain of 22dB.
- Constructed and analyzed multiple CNN configurations, identifying optimal setups for high-performance scene restoration from hazy images.
- Evaluated model performance using quantitative metrics like SSIM (Structural Similarity Index) and PSNR (Peak Signal-to-Noise Ratio).
- Enhanced image classification and feature extraction using Python, OpenCV, scikit-learn, and NumPy.

Projects

TaskTracker – Task Management Web App   Link

- Developed a task management app to organize academic and project tasks with a user-friendly interface.
- Implemented features like board/task management, subtasks, drag-and-drop, and state persistence using localStorage.
- Tools Used: React.js, Redux Toolkit, JavaScript, HTML, CSS

Personal Portfolio Website   Link

- Designed and developed a responsive portfolio website to showcase projects, skills, experience with a clean, modern UI.
- Integrated a functional contact form with backend support and dynamic content updates for seamless interaction.
- Tools Used: Mongodb, Express.js, React.js, Node.js,

Ecommerce Website   Link

- Built a responsive ecommerce website with product listings, shopping cart functionality, and intuitive navigation.
- Designed with a clean UI optimized for performance and user experience across all devices.
- Tools Used: HTML, CSS, JavaScript

Technical Skills

- **Languages:** C++, JavaScript, Python, MySQL
- **Web & Frameworks:** HTML, CSS, React.js, Node.js, Express.js, MongoDB, Git, GitHub
- **Coursework:** OOPS, DBMS, OS, Computer Networks
- **Soft Skills:** TeamWork and Collaboration, Communication, Time Management

Achievements

- **Runner Up – ZS CampusBeats 2025:** National-Level Tech Challenge by ZS Associates, recognized for innovative problem-solving and technical excellence.
- **AWS AI & ML Scholar 2023:** Scholar of AWS AI&ML Scholarship program, Selected among 50,000+ global applicants for excellence in AI/ML aptitude.
- **Competitive Programming:** Secured Max Codeforces rank of 816, CodeChef 1280.

Positions of Responsibility

- **Vice-President**, Electronic Student Collective, NIT Raipur (Aug 2024 – Present)
- **Executive**, Sanskriti Committee, NIT Raipur (Aug 2022 – May 2023)