CHAKRIKA GURRALA

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EDUCATION

Degree	Specialization	Institute	Year	CPI
B Tech	Computer Science & Engineering	Amrita Vishwa Vidyapeetham	2022–2026	9.00
HSC	Physics, Chemistry, & Mathematics	Winners Junior College	2020–2021	93.6%

WORK EXPERIENCE

AI Project Intern [*Microsoft and SAP*]   Nov 2024 – Current

- Engineered an AI-based prototype for plant disease detection, leveraging TensorFlow and OpenCV, achieving a 95% accuracy in real-world tests.
- Collaborated with experts to implement data preprocessing pipelines using Python and optimize model performance by 20%.
- Conducted in-depth analysis of field data using Pandas, NumPy, and Matplotlib.

Infosys Springboard Internship [Digital Technologies in Sports Domain]   Jan 2024 – Current

- Leveraged digital technologies and data-driven insights to analyze sports performance.
- Participated in a structured onboarding program to gain domain-specific expertise.

PROJECTS

Endangered Species Tracking Platform   Mar 2023 – June 2023

- Developed a responsive website utilizing React.js, Node.js, and MongoDB, tracking endangered species with real-time API integration.
- Enhanced user experience through optimized HTML5, CSS3, and JavaScript functionalities.
- Reduced API response time by 30% through efficient backend architecture.

Lung and Colon Cancer Classification   Oct 2024 – Nov 2024

- Developed an AI-driven healthcare platform using Flask & React, providing personalized recommendations for women.
- Implemented Hierarchical Clustering & GMM to segment 50,000+ women's health data, improving accuracy by 35%.
- Optimized backend architecture, reducing API response time by 40%, ensuring seamless real-time insights.

Sustainable Rural Development Solutions   Dec 2024 – Current

- Designed and implemented infrastructure improvements in underserved villages.
- Delivered measurable improvements in education access (20% rise) and healthcare adoption (15% rise) using IoT-based monitoring systems.

SKILLS

- **Programming & Databases** - Python, JavaScript, Java, SQL, C++, MongoDB, MySQL, DSA, C#
- **Frameworks & Libraries** - React.js, Node.js, TensorFlow, OpenCV, Pandas, NumPy, Matplotlib
- **Tools & Cloud Platforms** - Git, Visual Studio Code, Google Colab, AWS Educate (Machine Learning Foundations, Cloud Ops), Microsoft Azure

ACHIEVEMENTS

- **Programming in Java** | NPTEL, IIT Kharagpur (Elite Top 5%) – May 2024
- **Data Structures and Algorithms using Java** | NPTEL, IIT Kharagpur (Elite-Silver) – Nov 2024
- **The Joy of Computing Using Python** | NPTEL, IIT Kharagpur (Elite-Silver) – Nov 2024
- **Advanced Software Engineering Job Simulation** | Issued by Forage | December 2024
- **Master JavaScript, HTML, and CSS with 30 Projects in 30 Days** | Udemy | Jan 2025