ALIVIA HOSSAIN

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CAREER OBJECTIVE

I am Alivia Hossain from Kolkata, residing in Indore — passionate about Artificial Intelligence and Data Science. I love solving real-world problems using probability, statistics, and coding. I have explored open source projects and built a Bayes' Theorem-based survival prediction tool. Eager to grow through research, internships, and collaborative projects.

EDUCATION

Devi Ahilya Vishwavidyalaya, Indore	Sep 2025 – Sep 2030
Master of Technology (Integrated) in Artificial Intelligence and Data Science, (Pursuing)	
Auxilium Convent School – Dum Dum, Kolkata	Apr 2022 – May 2024
Class 12 (Science), 12.25%	
Auxilium Convent School – Dum Dum, Kolkata	Apr 2010 – Apr 2022
10th Grade, 97.20%	

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL (MySQL), Java, C++

- **Machine Learning & AI:** Machine Learning, Deep Learning, Artificial Intelligence, Natural Language Processing (NLP)

- **Libraries/Frameworks:** NumPy, Pandas, Matplotlib, TensorFlow

- **Web Technologies:** HTML, CSS, JavaScript, REST APIs

- **Version Control:** Git, GitHub

- **Databases:** MySQL

- **Software/IDE:** Eclipse, Anaconda, MS Office, VS Code, Jupyter Notebook, IntelliJ

- **Data Visualization:** Tableau, Power BI, Excel

PROJECTS

- **Disease-prediction** *GitHub*
  Python, Flask (REST API Development), Bayesian Inference & Statistical Modeling

  - Developed a machine learning–powered disease prediction system enabling symptom-based diagnosis using probabilistic models.

  - Integrated Bayesian inference to compute posterior disease likelihood, improving clinical decision support accuracy.

- **Deepfake Image Classification (CNN)** *GitHub*
  Python, NumPy, Matplotlib

  - Built and trained a CNN on the 140k Real and Fake Faces dataset for fake image detection.

  - Achieved **95.8% accuracy**, a **20% improvement** over baseline models.

  - Reduced training time by **30%** with GPU acceleration and increased dataset diversity by **40%**.

EXPERIENCE

- Web Dev Co-Lead, Google Developer Groups On Campus SDSF DAVV

- Hacktoberfest, Project Admin and Mentor

- GirlScript Summer of Code, Social Summer of Code (Open Source Contributor)

- Google Cloud 19 Skill Badges and Labs, Google Cloud Skills Boost

AWARDS

- **Junior Bigyani Kanya Medha Britti - 2022**
  Issued by JBNSTS (Jagadis Bose National Science Talent Search)
  1 of 52 selected awardees out of 10000+ students (Top 0.5 %), after a subjective exam and offline interview conducted by professors from Top Indian Universities, accoladed by Chief Minister of West Bengal and Minister of Higher Education of West Bengal.