

# Aastha Shayla

✉ [aastha.shayla2001@gmail.com](mailto:aastha.shayla2001@gmail.com) | 📞 ++9693764689 | [🌐 LinkedIn](#) | [🐙 GitHub](#)

## EDUCATION

---

- **Rajiv Gandhi Institute of Petroleum Technology** Jais, UP  
(An Institute of National Importance along the lines of IITs)  
Bachelor of Technology in Computer Science and Engineering; CPI: 8.54 Dec 2020 - Jun 2024
- **Delhi Public School** Bokaro Steel City  
Intermediate: 91 % Matriculation: 10 CGPA 04/2016 - 04/2019

## EXPERIENCE

---

- **Teachnook Machine Learning Internship** 1/6/2022-31/7/2022  
Certificate of completion  
  - Training includes **Scikit Learn, Linear Regression, Logistic Regression, Support Vector Machine**
  - Major Project in a group of 2 : Wine Quality Detection- Report includes EDA, accuracy of all the algorithms used, Conclusion

## PROJECTS

---

- **Machine Learning in Patient Health Care- [GitHub](#)** Ongoing
  - Project includes an introduction to **Atharva Card** which will contain the medical history of the patient from birth.
  - Prediction of future Diseases with the help of Atharva Card with the help Modifications in the embeddings of **MED-BERT and BEHRT** model
  - Converting Radiology Scans and free texts to labelled text using Image Segmentation (**U-Net Architecture**), Rule Based NLP model, **Spacy NLP** model and **Spark NLP**.
- **Prediction of Oil Spill from tankers using AI/ML techniques- [GitHub](#)** 04/2022-09/2022
  - Problem statement is under the Ministry of Earth Science.
  - Came up a multimodal approach to solve the problem.
  - Compared **ANN, KNN, Isolation Forest, SVM, LOF, COF** and **PCA** in order to get the best accuracy.
  - Used **Graph Neural Network** for finding anomalies.
  - Used **LSTM** for predicting future Trajectory of the ship.
  - Used **U-Net Architecture** for the final stage of confirmations using SAR images.
- **Detection of Cardiomegaly using Deep Learning- [GitHub](#)** 05/2022-06/2022
  - Developed a website which diagnose cardiomegaly digital chest X-Ray using **streamlit**.
  - Experimented with ImageNet trained models such as **ResNet, Inception**.
  - Developed and implemented a **CNN** model resulting in great accuracy.
- **FUNZOA website [GitHub](#)** 03/2021-05/2021
  - Built a collaborative platform for sharing information about tourist locations and reviews as a team of 2.
  - Incorporated **HTML, CSS, and Bootstrap** for a visually appealing interface.
  - Utilized **Node.js** and **Express.js** for server-side scripting.
  - Stored data in a **MongoDB** database.
  - Implemented user authentication with **PassportJS**.
  - Designed **REST APIs** for seamless communication between the front-end and back-end.
  - Non-registered visitors can view location information and reviews.
  - Registered users have access to **CRUD** operations.
- **DIC PROJECT-QUANTUM COMPUTING- [GitHub](#)** 09/2021-10/2021
  - Learned all the existing **Quantum Key Distribution Protocol**
  - Made **Quantum Teleportation** Circuits on Qiskit.
  - Made various circuits of algorithms such as **Bernstein Vazirani, Dutsch-Juzsa, Grover algorithm** on Quantum Circuit composer. [GitHub](#)

## SKILLS

---

- **Areas of Interest:** Data Structures, Algorithms, Machine Learning, Deep Learning, Neural Networks, Web Development, Quantum Computing
- **Languages:** C++, Python, C, SQL, HTML, CSS, JavaScript

## ACHIEVEMENTS

---

- **First Prize worth one lakh INR in SMART INDIA HACKATHON 2022** where we solved the unsolved real-life problem statement. [Certificate](#).
- **Selected in Google Developers Machine Learning Bootcamp**:Completed the survival missions of the bootcamp and came under top 200 over the country.
- **Coursera Deep Learning Specialization**:Completed all the 5 courses of Deep learning with weekly assignments and Quizes [Certificate of Completion](#).
- **NPTEL CERTIFICATE-Quantum Computing**:Got eligible for the elite Certificate by NPTEL-IIT Madras by scoring a good percentage in the offline exam. [Certificate](#).
- **DIC Project**:Certificate from the Design and Innovation Center(RGIPT)for the proper presentation and meeting the expectations of the professors.

## POSITIONS OF RESPONSIBILITY

---

- **Head-Public Relations** FIPI, RGIPT
- **Core Team Member- Co-head Public Relations** ACM, RGIPT