

# Prabhu Preetam Das

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## EDUCATION

**Graduation: May 2024 | CGPA: 7.65**

B. Tech in Information Technology at  
**International Institute of Information Technology, BBSR**

**Schooling: April 2019**

**Nayagarh Higher Secondary School,  
Nayagarh**

Class XII: 84.34 %

Class X: 88 % (2017)

## SKILLS

### Programming Languages:

- Industry Grade: Python
- Intermediate: C++, SQL
- Novice: C

### Tools:

- Tableau
- Microsoft Excel
- Matplotlib
- Power BI
- Git

### Frameworks:

- Django
- Flask
- Qiskit
- TensorFlow
- PyTorch

### Technologies:

- Azure
- AWS
- SageMaker
- SQL
- MongoDB
- Docker
- IBM Quantum Lab

## ACHIEVEMENTS

- IBM Quantum spring 2023 badge.
- Google Kickstart under 5000
- CodeChef under 500
- LeetCode 200+ questions
- Junior Mathematics Olympiad

## CERTIFICATIONS

### Data Science Master

Status: Ongoing | May 2024

### Microsoft MLOps Challenge

Score: 95% + | [Certificate](#) | July 2023

### Data Structures and Algorithms in C++

Score: 94.6 % | [Certificate](#) | Oct 2022

## LINKS

GitHub: [urpreetam](#)

My all certificates: [GitHub link](#)

## EXPERIENCE

**HPDS INFOTECH** | Trainee | Oct 2023 - Mar 2024 | Remote

**ML Engineer** | **Python** | **Documentation** | **Integration**

- Engaged with building **5** recommendation system. Applied **hybrid recommendation** approach to give **10** similar options each.
- Integrated an **LLM** of **4-bit** precision model in the platform. With **Flask** created an endpoint for the **API invocation** and response.
- Fine-tuned **GPT2** model for creation of **Personalized Learning Path**. Over **10,000** paths, goals and activities trained upon this.
- Documented and Proposed **product lifecycles** of **10+** ML models.

**MLOps Engineer** | **Docker** | **MongoDB** | **AWS** | **Azure**

- Deployed the **4-bit** precision **LLM** in the Amazon **SageMaker**. Created an **API endpoint** and **function URL** for interactions.
- Containerized the **5** recommendation models and build the **CI/CD** pipelines along with orchestration in **docker-compose**.
- Integrated **MongoDB** database and a Flask API endpoint to **batch process** the recommendations. Recommends over **1,000** items.
- Live training implementation for the **GPT2** Model in cloud server.

## PROJECTS

**QuickServeLLMs** | Personal Project | [GitHub](#) | April 2024

- Served **GPT2** model with optimized techniques as **KV- caching**, **Batching**, **Quantization** and **LORA** to reduce **40%** serving time.
- With **10** samples of each of the methods, Plotted the graphs using **matplotlib** and **seaborn** the average **reduction** of time.
- **Deployed** in the Azure cloud server as a chatbot and tested against an input maximum batch size of **128** in CPU only machine.

**ID MISSPERC** | Personal Project | [GitHub](#) | July 2023

- Calculates the mismatch percentage of ID cards with **6** applicable parameters each of **11.11%** and face with **33.33%** mismatch value.
- Applied **OpenCV** for image processing and **Pytesseract** for **OCR** detections. **Flask** as the backend to upload and show results.
- With **Docker images** and **GitHub Actions** automated CI/CD tasks to auto-deploy and reduced **20%** human efforts.

## ORGANISATIONS

- Trainee at Womanium in Quantum communication and sensing. July – August 2023 | [Certificate](#)
- Youth for Sustainability campus leader. February 2022 – May 2023 | Leading works with the environment
- The Automation and Robotics Society (TARS) R&D team head. September 2021 – December 2022 | social media Publish
- Chegg India as a Q&A expert in advanced mathematics. May 2021 – Feb 2022 | 100+ Questions solved