# Diptendu Kumar Jashu

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# Work Experience

# · Insignia Consultancy Services

May 2024 - July 2024

Data Science Analyst

 Created a series of robust web scraping scripts to gather competitor pricing data, leading to strategic insights that informed pricing adjustments and increased market competitiveness, ultimately benefiting 20+ sales team members.

## ·Synergy Eduservices

Aug 2022 - Oct 2022

Freelancer Content Writer

- Developed targeted academic content related to company policies, directly influencing customer satisfaction scores by 15%; monitored and maintained attendance records for 100+ training sessions, ensuring high-quality participant engagement.

· Ladder Media May 2022 - July 2022

Freelancer for (SME) Subject Matter Expert

- Designed and delivered tailored solutions for the Indian and US markets, achieving a 30% increase in engagement rates; collaborated with cross-functional teams to adapt content for cultural relevance, impacting 1,000+ users.

## **PROIECTS**

## · COMBINING GAN AND FL FOR COVID-19 DETECTION IN EDGE CLOUD COMPUTING

Python, TensorFlow, CNN, GAN, FL, Edge Cloud Computing

GitHub

- Devised a blockchain-enabled architecture for AI-based COVID-19 detection, facilitating secure data sharing and analysis among healthcare institutions; the solution is currently utilized for over 10,000 patient records, ensuring data integrity and privacy.
- Tools & technologies: Python, TensorFlow, Convolutional Neural Networks (CNNs), Generative Adversarial Networks (GANs), Federated Learning (FL), Edge Cloud Computing, Differential Privacy.

#### · Krishi Yog APP

React Native | Appwrite | i18n library | Fast API | Hugging Face Model | Gemini API | Expo

GitHub

- Led a team of 5 to develop a farmer-centric app, featuring secure Farmer Login and an interactive Farmer Community for disease reporting and prevention. Implemented multilingual support with Indian languages, increasing local farmer engagement by 50% and improving accessibility.
- Proposed a comprehensive News Tab that consolidated disease updates and educational content.

#### ·Advanced Liver Tumor detection using Quantum based algorithm

FL, QVC, CNN, Nibabel, Qiskit, TensorFlow, PyTorch, OpenCV, SciPy, NumPy, Pandas, Scikit-learn, Matplotlib

GitHub

 Developed a liver tumor detection system using a Quantum Variational Classifier (QVC) for generating synthetic data and a CNN model for classification; integrated Federated Learning (FL) to enable secure hospital-based training on private CT scans, enhancing tumor detection accuracy while preserving data privacy.

#### ·A real time chat application

HTML, CSS, JS, React, Socket IO, Node, MongoDB

GitHub

- Engineered a real-time chat application using the MERN stack, integrating instant messaging, user authentication, and live updates; the solution, with over 100ms latency optimization, having seamless communication by leveraging Socket.IO for real-time data transfer and optimized data management with MongoDB, enhancing user experience and reliability.

#### **SKILLS**

- Technical Skills: C/C++, Python, JavaScript, HTML5, CSS / Tailwind CSS, PHP, SQL, MongoDB
- Frameworks/Libraries: jQuery, JSON, Node.js, React, Redux, Express, Bootstrap, NumPy, Panda, Matplotlib, TensorFlow, Keras, OpenCV
- · Tools: Git, GitHub, Postman, FireBase, AutoCAD, MS Office, AWS

## **EDUCATION**

## · SRM University, Andhra Pradesh

2022 - 2026

B.Tech in Computer Science and Engineering with Specialization in AI & ML

CGPA: 7.95 (5th Sem)

· Jnan Chandra Ghosh Polytechnic, Kolkata

2019 - 2022

CGPA: 8.5

 $Diploma\ in\ Mechanical\ Engineering$ 

#### **CERTIFICATIONS**

- · Foundation in Cybersecurity | Coursera [Link]
- · AWS Fundamentals | Coursera [Link]
- · Python | NPTEL [Link]
- · AutoCAD Training | L&T [Link]
- Employability Skills Development program | Mahindra [Link]
- E Business | NPTEL [Link]