



# Ujjawal Roy

## Data Scientist/ML Engineer

An accomplished **Data Scientist** with **over 2.5 years** of experience in AI technologies, skilled in machine learning, deep learning, image processing, timeseries analysis, demand forecasting along with other software solutions. Excelling in understanding complex technical information and applying **creative thinking** to devise innovative strategies. Known for his diligence and dedication.

✉ royujawal@gmail.com

☎ 9321398895

📍 Kolkata, India

🌐 linkedin.com/in/ujjawalroy

## WORK EXPERIENCE

### Data Scientist - Senior Associate Developer (AI/ML)

BLU COCOON DIGITAL

04/2023 - Present

Kolkata, India

- Developed **4 AI algorithms** for Agri-Tech, logistics, and F&B industries using machine learning, deep learning, computer vision, image processing, NLP and timeseries analysis.
- Developed and implemented **image processing** techniques for accurate extraction and recognition of vertical text from images (average accuracy exceeding **95%**).
- Incorporated the principles of modular programming (**OOP** concepts), developed several **machine learning** pipelines, created **custom Python libraries** for integrating MongoDB database and external devices.

### Data Scientist - Associate Developer (AI/ML)

BLU COCOON DIGITAL

05/2021 - 04/2023

Kolkata, India

- Experienced in transfer learning, leveraging the **YOLOX** and **YOLOv5-7**, with over 95% accuracy for custom **object detection** and other problem statements.
- Developed effective machine learning models (average accuracy over 85%), on very small datasets, using classical **feature extraction** with image processing techniques.
- Successfully conducted R&D in AI enabled **crop disease detection** in uncontrolled environments.
- Designed **MongoDB** databases to optimize data storage and querying.
- Experienced in timeseries analysis and **demand forecasting** using **LSTM** and **statistical modelling** techniques.
- Worked as Project Coordinator, managing projects with **Agile methodologies**, MS Excel, and MS PowerPoint.

## EDUCATION

### Bachelor's in Oil and Gas Engineering

Saint-Petersburg Mining University

09/2016 - 06/2020

84% (4.2/5)

- Received **recommendation** from the Drilling department's faculty members and external reviewers for continuing master's in Saint-Petersburg Mining University after a successful completion and presentation of final year thesis.

## SKILLS

communication

problem-solving

adaptability

python for data science

convolution neural network

computer vision

Image processing

NLP

model pipeline development

object oriented programming

machine learning

deep learning

artificial intelligence

demand forecasting

timeseries analysis

## CERTIFICATIONS

Probability and Statistics for Machine Learning and Data Science - DeepLearning.AI (06/2023 - 07/2023)

Calculus for Machine Learning and Data Science - DeepLearning.AI (05/2023 - 06/2023)

Linear Algebra for Machine Learning and Data Science - DeepLearning.AI (04/2023 - 05/2023)

Machine Teaching for Autonomous AI - Coursera (12/2022 - 01/2023)

## ACHIEVEMENTS

Received the SPOTLIGHT Award for FY 2022-23 at Blu Cocoon Digital

## LANGUAGES

English

Full Professional Proficiency

Hindi

Native or Bilingual Proficiency

Bengali

Native or Bilingual Proficiency

Russian

Professional Working Proficiency

## INTERESTS

Bonsai

Football

Badminton

Weightlifting

Music

Knowledge Gathering