# Pronoy Kundu

Chennai, India | pronoykundu513@gmail.com | 7620938524

linkedin.com/in/pronoy-kundu-615947272/ | github.com/Pronoy513

### Introduction

A free-spirited final-year computer science student who loves to explore and have fun with new technologies and domains, and find quick but appropriate solutions. I am excited to learn new skills and gain new forms of knowledge while using my current skills and corporate experience to positively impact the organization and maintain its standards.

#### **Education**

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Anna University (MIT)	9.3	2024
Intermediate (Class XII)	Army Public School, Kirkee, Pune	99.8% (499/500)	2021
Secondary (Class X)	Kendriya Vidyalaya, Vayusena Nagar, Nagpur	97.8% (489/500)	2019

# **Experience**

#### TECHNOLOGY SUMMER INTERN, Barclays - Pune

Jun 2024 - Jul 2024

- Worked on a Data Engineering & Analytics project, and processed raw Excel data feeds, applying business logic to generate formatted reports using Python Pandas, and automating email delivery.
- Deployed the workflow using **Kedro**, achieving **100**% automation with scheduled daily runs.
- Conducted anomaly detection on Time-Series data using AutoEncoder & Isolation Forest, achieving a 95% accuracy.

INTERN, DRDO - Centre for Air Borne System (CABS), Bengaluru

Jun 2023 - Jul 2023

- Applied **U-Net** for semantic image segmentation on a dataset of 7,000+ images, achieving an accuracy of **85%**.
- Implemented **Mask R-CNN** on a dataset of 170 images, achieving a COCO-style mAP of **84**% and a mask mAP of **76**% in performing instance segmentation.
- Compared training from scratch vs. transfer learning to optimize performance on limited data, achieving an average 9% reduction in loss.

# **Technologies**

Languages: C, C++, Java, C#, SQL, JavaScript, Python, TypeScript

**Technologies:** Three.js, React.js, Next.js, Flutter, Tailwind CSS, MongoDB, MySQL, Blender, Unity, Node.js, Express.js **Libraries:** Pandas, NumPy, TensorFlow, Keras, Scikit-learn, Seaborn, Matplotlib, SciPy, PyTorch, NLTK, OpenCV,

# **Projects**

# Off-Board Path Planning System for UAV-Base Stations | NGN Labs

github.com/Pronoy513/UAVPath

- Developed an off-board system using **DeepLabV3+** to identify No-Fly Zones for UAV path planning, using a custom dataset made of Google Earth images, achieving **92.2**% accuracy.
- Introduced a weighted DBSCAN algorithm to generate waypoints for UAV navigation through population clustering. It improves optimal clustering by 65% as compared to traditional DBSCAN.

# Flight Booking App | Naan Mudhalvan

github:FlightBookingApp MERN

- Built a flight booking app using the **MERN** stack (MongoDB, Express, React, Node.js), enabling seamless flight management and real-time data handling.
- Developed role-based authentication with 3 user roles (Customer, Flight Operator, Admin), allowing users to search, book & cancel tickets, register flights and admins, and manage bookings.

## British Airways Data Science Virtual Internship | Forage

2024

- Customer reviews were scraped to create a data set of 1000+ reviews and exploratory data analysis (EDA).
- Applied **NLP** techniques to analyze reviews and ratings, providing insights into customer experience and identifying positive and negative trends. Achieved a classification accuracy of **85.3**% in predicting customer buying behavior.