

# Sourasanta Dutta

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## Education

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### **University of Engineering and Management Kolkata, Kolkata**

Bachelor of Engineering in Computer Science (Artificial Intelligence & Machine Learning)

CGPA: 8.16/10

July 3rd, 2023 – Ongoing

*Courses Pursued:* Programming in C and Python, Data Structure and Algorithm, Computer Organization Architecture, Autocad, Digital & Analog Electronics, Java, Artificial Intelligence, Machine Learning.

*Other Courses:* Economics, Humanities, Principal of Management, Indian History, Indian Constitution

### **Burdwan Municipal High School, under WBCHSE, Purba Bardhaman, West Bengal**

Higher Secondary (11th-12th), Score: 85%

### **Burdwan Municipal High School, under WBBSE, Purba Bardhaman, West Bengal**

Class 10th, Score: 88.28%

## Projects

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### **Women Safety Project (IoT + ML + App Development)**

An Arduino and Machine Learning-based project for women and child safety.

- Dual Activation: Triggered by button press or shouting "Help" twice (voice recognition).
- Emergency Alerts: Sends live location to 10 contacts and nearest police station.
- Auto-Call: Automatically calls nearest selected contact for assistance.

### **AI Based Eye Disease Detection Using Fundus Camera Images**

Uses deep learning to detect eye diseases from fundus images.

- Can classify 39 different eye conditions.
- Identifies diseases like Diabetic Retinopathy, Glaucoma, Age-related Macular Degeneration.

### **Crime Detection & Hotspot Mapping**

Predictive analytics tool for forecasting crimes and mapping hotspots across Indian districts.

- Linear Regression (scikit-learn) for prediction; K-Means for hotspot identification.
- Visualized patterns using seaborn and matplotlib.

## Skills

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**Languages:** Python, C, Java, Flutter, React JS, React Native, MySQL, HTML, CSS, JavaScript

**Developer Tools:** VS Code, Google Colab, Jupyter

**Designing Platforms:** Figma, Android Studio

**Others:** Cryptography and Cybersecurity, Data Analysis (Power BI), Creative Prototyping, UI Design, Social Media Management, Content Writing

## Hobbies

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Reading Books, Writing, Cinematography, Tabla Playing