

# PRAJWAL PRASAD

Conflict Resolver, Mindful, Leader

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## SUMMARY:

Innovative and meticulous **software developer** skilled in languages like C/C++ & Python, with strong background in **machine learning** and **web development**. Experienced in analysing complex problems, delivering solutions, and collaborating with cross-functional teams for successful project execution.

## SKILLS:

- **Technical** - C/C++, AI/ML, Python, DSA, DBMS, OOP, Full Stack, Mongo DB, Express JS, Node JS, React JS, HTML, CSS, JavaScript, NLP, Google Colab, VSCode, MySQL, Competitive Programming.
- **Non-technical** - Leadership, Communication, Adaptive, Problem-Solver.
- **Languages** - English (Full Professional Proficiency), Hindi (Native or Bilingual Proficiency).

## RELEVANT PROJECTS:

### BrainWave Website (Generative AI) | [Link](#)

- Developed BrainWave, an educational tool leveraging the Gemini and YouTube Transcript APIs to summarise(with ~95% accuracy) and generate questions(with ~88% accuracy) from video content.
- Designed a Streamlit-based interactive web interface for efficient content summarisation and question generation with PDF export capabilities.

### Semantic Segmentation of Aircrafts | [Link](#)

- Developed an Attention U-Net-based deep learning model for semantic segmentation of aircraft in images, achieving 98.1% accuracy and 0.69 validation loss.
- Prepared and processed a custom dataset, including segmentation annotations, to train and evaluate model performance using IoU and pixel accuracy metrics.

### Tuberculosis Detection Model | [Link](#)

- Developed a deep learning model using Keras to predict tuberculosis from chest X-ray images with high accuracy of 97.9% and loss of 5.8%, leveraging CNN architecture for feature extraction.
- Implemented explainability techniques like LIME and Grad-CAM to provide interpretable visualizations, enhancing trust and transparency in medical diagnostics.

## EDUCATION:

### 10/2022 - 06/2026 | Indian Institute of Information Technology, Nagpur

B.Tech - Computer Science Engineering (with AI & ML)

7.53/10

### 03/2021 - 03/2022 | Delhi Public School, Ranchi

Higher Secondary Education - AISSCE (CBSE)

93.67%

## ACHIEVEMENTS:

### Team Leader in Code-Rush Finals (IIITM Gwalior) | 10/2024

Secured 5th rank out of 30 teams in the Finals of Competitive Programming event Code-Rush at Infotsav '24, IIITM Gwalior.

[Certificate](#)

### Pupil | CodeForces (Max Rating 1347)

Secured Rank 2705 in Codeforces Round 987 (Rated for Div 2)

[Profile](#)

### 3-Star | CodeChef (Max Rating 1609)

Secured Rank 28 in Division 3 in Starters 170 (Rated)

[Profile](#)

## CERTIFICATIONS:

- iOS & Swift - The Complete iOS App Development Bootcamp | 05/2024 - 07/2024
- Building Transformer-Based Natural Language Processing Applications | 10/2024
- Google AI Essentials | 10/2024

[Certificate](#)

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