

# MIRZA IBRAHIM BAIG

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## PROFESSIONAL SUMMARY

Data-driven engineer with experience in Python, SQL, Machine Learning, and Web Development. Hands-on background in building ML pipelines, analyzing datasets, and deploying practical applications. Focused on delivering scalable, insight-driven solutions across Data Science, Analytics, and Software roles.

## CORE SKILLS

**Programming Languages:** Python, Java, JavaScript

**Framework and Libraries:** ReactJS, Express, Mongoose, Redux

**Tools and others:** Git, Machine Learning, Pandas, Numpy, HTML, CSS, MongoDB, SQL

## EDUCATION

M.Tech — Computer Science Engineering, CBIT (Expected 2026) | CGPA: 8.91

B.E — Computer Science Engineering, DCET (2023) | CGPA: 8.10

## PROJECTS

### Medical Diagnosis AI Pipeline (IEEE ICSCN)

- Developed a lightweight Ghost Net-VIT and Attention U-Net based framework achieving a recall of 70% which minimized false negatives compared to the existing model and was optimized for edge deployment.
- Published the work on IEEE ICSCN, contributing to peer-reviewed conference research in medical image diagnosis.

### SpaceX Landing Prediction (IBM Capstone)

- Designed and optimized SVM and Regression models for SpaceX landing prediction, reaching 90% accuracy by leveraging in-depth EDA and targeted feature engineering.

### Bird Species Identification

- Implemented a YOLO-based deep learning model for object detection and achieved 91% accuracy.
- Fine-tuned the model and deployed a React UI to display the predictions. Using Flask.

## CERTIFICATIONS

IBM Data Science Professional, Python with Generative AI, IEEE ICSCN Presentation Certificate, Data Science Internship