

PRADHUMAN KUMAR

📞 918409584727 ✉ pradhumanpk2018@gmail.com

🌐 <https://github.com/pk4727> 🔗 <https://www.linkedin.com/in/pradhuman-kumar-084552262>



Education

Narula Institute of Technology

Bachelor of Technology in Artificial Intelligence and Machine Learning | Avg CGPA 8.6

Aug 2022 – Present

Kolkata, West Bengal

Government Polytechnic Nirsra

Diploma in Mechanical Engineering | 83%

Aug 2019 – Aug 2022

Dhanbad, Jharkhand

Saraswati Shishu Vidya Mandir

Matriculation | 82%

Till Mar 2019

Giridih Jharkhand

Experience

Intern at Coding Raja Technologies

Sep 2023 – Oct 2023

- **Image Classification for Food Recognition**
 - Developed a CNN model using TensorFlow/Keras for food image classification.
 - Achieved an accuracy of over 85% on a Kaggle dataset comprising 50+ food categories.
 - Utilized advanced data preprocessing, model evaluation, and training techniques to reduce training time.
- **Sentiment Analysis on Social Media Data**
 - Built a sentiment analysis model with SVM and TF-IDF to classify social media posts as positive, negative, or neutral.
 - Optimized text preprocessing steps, achieving 90% classification accuracy and reduced false positives by 15%.
 - **Tech Stack:** Python, Machine Learning, CNN, TensorFlow, Keras, NLTK, Scikit-learn, SVM, TF-IDF, Data Preprocessing, Text Preprocessing, Data Evaluation

Projects / Achievements

Voice-enabled map (Group Project)

Bharatiya Antariksh Hackathon 2024

Finalist (Top 30 teams)

- Developed a Python-based geospatial mapping application with a voice-enabled UI for easy navigation.
- Included features such as zooming, location marking, and layer selection (e.g., airports, railway stations).
- Enhanced accessibility and user engagement, receiving positive user feedback.
- **Tech Stack:** Python, Machine Learning, NLP, Flask, HTML, CSS, Voice Commands

Diseases Prediction

🌐 [multiple-diseases-prediction](#)

- **Heart Disease Prediction:** Created a logistic regression model to predict heart disease risk based on clinical data (age, cholesterol, blood pressure, etc.), reaching **88%** accuracy and reducing model complexity by 10%.
- **Diabetes Prediction:** Developed an SVM-based predictive model for diabetes risk, achieving a sensitivity of 90% using health indicators (glucose, BMI, age, etc.).
- **Additional Machine Learning Projects:** Implemented various predictive and classification models, including Parkinson's Disease Prediction, Loan Prediction, House Price Prediction, Calories Burnt Prediction, and Spam Mail Detection.
- **Tech Stack:** Python, Pandas, NumPy, Scikit-learn, Matplotlib, Logistic Regression, SVM, Model Optimization.

Technical Skills

Languages : JAVA, Python, Machine Learning, Flask, SQL

Tools : MS Word, MS Excel, MS PowerPoint