Ujjwal Kumar

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OBJECTIVE

Passionate about applying machine learning techniques to solve real-world problems. Actively exploring and implementing ML models to drive innovation and deepen practical experience in the field.

EDUCATION

Bachelors of Technology in Electronics and Communication   2022 - ongoing

Maharaja Agrasen Institute of Technology, Delhi

CGPA: 7.9 (up to 5th sem)

PROJECTS

Spam email classifier | GitHub

- Built a model to classify emails as spam or not using **NLP** techniques.
- Trained a **Multinomial Naive Bayes** model and optimized it with GridSearchCV.
- Applied CountVectorizer for feature extraction and handled class imbalance using SMOTE.
- Built a web app using **Flask** for model integration and user interaction.

Pokémon Image Predictor | GitHub

- Built a **CNN**-based image classification model to identify Pokémon from user-uploaded images.
- Trained the model on a custom image dataset containing 10 Pokémon classes.
- Developed a full-stack web app using ReactJS, TailwindCSS, and **FastAPI** for real-time image prediction.

Customer Churn Prediction | GitHub

- Developed an **ANN** classification model to predict customer churn.
- Encoded categorical features using One-Hot Encoding and Label Encoder.
- Achieved 87.17% accuracy and 85.50% validation accuracy.
- Built a **Streamlit** app for model deployment.

TECHNICAL SKILLS

- **Languages:**   Python, JavaScript, C++
- **Frontend:**   React.js, TailwindCSS, HTML, CSS
- **Machine learning:**   NLP, Supervised & Unsupervised algorithms, Neural Networks
- **Misc:**   FastAPI, Flask, Streamlit, SQL, Git