

# Usama Ahmed

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## Professional Experience

### Python developer, RBs Solutions

1. I developed a flask app which parses an excel and stores the data inside the database.
2. I also called Adobe's PDF Extract API to parse PDF and covert it to JSON.

### Freelance work, Rameez butt

- I developed ecommerce home, login, and register screens in flutter.
- App had the capability to upload and save PDF.
- I developed an ERD and database schema.

## Education

**BS Computer Science**, *National University of Modern Languages*

2024  
Islamabad, Pakistan

## Skills

Tensorflow

Web scraping

Flask

Flutter

MVC

Git

IOS

Android

## Courses

**Advanced learning algorithms**, *DeepLearning.AI*

**Supervised learning algorithms**, *Deeplearning.AI*

## Projects

### Final year project, IOT based crop prediction system

- We developed and integrated Flutter app, arduino, NPK sensor, and GRU model.
- I trained sequence models on multivariate multiclass time series dataset to forecast the best crop for a particular land.
- Model selection was done RNN, LSTM, and GRU
- GRU gave the best accuracy of 82%.

### Crop predictor android app

I developed an android app which predicted the best crop using ANN by leveraging Flask, Tensorflow, and arduino.

### Image Compression

- I leveraged K means clustering to extract 16 colors from an image
- The image had hundreds of different colors so this reduced the size significantly.

### Authentication system for a clinical web application

- Flask-Bcrypt was used to hash the passwords.
- Flask's session object was used for session management.
- Smtplib was used to send emails.
- Jinja 2 was used as templating engine.