

# Abdul Rafay Imran

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## EDUCATION

● <b>Bachelor of Science in Software Engineering</b> – University of Karachi, Karachi, Pakistan	2023 -Present
● <b>Diploma in Software Engineering</b> – Aptech Learning, Karachi, Pakistan	2022-Present
● <b>Intermediate</b> Adamjee Govt. Science College, Karachi, Pakistan	2020-2022
● <b>Matriculation</b> KBV CAA Model School and College, Karachi, Pakistan	2018-2020

## PROJECT EXPERIENCE

### CROP YIELD PREDICTION IN PAKISTAN (PYTHON) ---- [github: crop yield](#)

- Analyzes historical agricultural data to study crop yield trends and regional differences in Pakistan.
- Builds and evaluates multiple machine learning models for crop yield prediction.
- Provides visualizations, feature importance, and interactive yield prediction for real-world insights.

### CAR PRICE PREDICTION: (PYTHON) ---- [github: car price](#)

- Built a preprocessing pipeline with cleaning, feature encoding, and dataset preparation.
- Trained and evaluated a Linear Regression model using MAE and R<sup>2</sup> metrics.
- Produced visual comparisons to interpret and validate model predictions.

### IRIS CLASSIFICATION: (PYTHON) ----[github: iris](#)

- Developed an Iris flower classification model using Python, loading and exploring the dataset with pandas and seaborn for data visualization.
- Implemented data preprocessing including label encoding, train-test splitting, and feature scaling, followed by training a Random Forest classifier.
- Evaluated model performance with accuracy metrics, confusion matrix visualization, added interactive prediction for new flower measurements.

### Hospital Management System: ( MERN STACK) ---- [github: medicore](#)

- Developed a full-stack healthcare management system with MERN Stack for role-based access.
- Implemented appointment scheduling, billing integration, telehealth consultations, and customizable dashboards.
- Ensured secure JWT authentication, real-time notifications, analytics, and mobile-responsive design.

### EMPLOYMENT AND UNEMPLOYMENT TREND ANALYSIS: (PYTHON) ----[github: employment analysis](#)

- Analyzed employment and unemployment trends, including pre- and post-Covid comparisons and seasonal patterns.
- Created clear visualizations to highlight long-term trends, Covid-period impacts, and monthly variability.
- Processed and cleaned multi-source unemployment datasets with date handling, missing-value treatment, and statistical summaries.

### REALITY CHECK: (REACT + PYTHON) [github: reality check](#)

- An explainable AI platform that detects manipulation tactics in digital text (fear, urgency, authority abuse, polarization, missing evidence).
- Developed a FastAPI + React system using hybrid rules and transformers with clear rationales and calibrated scoring.
- Enabled real-time risk queues and exportable audit reports for media, policy, and enterprise use.

### MEDASSIST: (REACT + PYTHON) [github: medassist](#)

- Built an end-to-end Kaggle machine learning project, from data cleaning and feature engineering to model training and evaluation.
- Improved predictive performance by testing multiple algorithms and tuning hyperparameters using cross-validation.
- Delivered clear insights with visualizations and a reproducible workflow, enabling reliable and data-driven decision-making.

### VELUXE MOTORS : (NEXT) [github: veluxe motors](#)

- Developed a premium, responsive car dealership website using a modern React-based frontend and Node.js backend.
- Built dynamic sections for vehicle listings, featured models, and inquiry/contact flows to improve lead generation.
- Implemented a clean, scalable component architecture with strong focus on performance, UX, and maintainable code.

### PORFOLIO: (NEXT) [github: portfolio](#)

- Built a personal portfolio web app to showcase my projects, skills, education, and experience in a clean, responsive interface.
- Added practical user-facing functionality such as a structured contact form, downloadable CV access, and an AI-style assistant widget.
- Implemented advanced UI features including Framer Motion animations, dark/light theme support, scroll progress indicators, and interactive sections to improve engagement.

## ACHIEVEMENTS

- **First Prize, Speed Programming Competition** – Aptech Learning, Karachi, Pakistan
  - **Second Prize, Web Designing Competition** – Aptech Learning, Karachi, Pakistan
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2023  
2023

## SKILLS AND INTERESTS

**Technologies:** JavaScript – React JS – Angular – PHP – EXPRESS JS - Python - Pandas - Matplotlib - seaborn - Data analysis and visualization

**Dashboard and Visualizations:** Power BI

**Databases:** SQL – MongoDB

**Additional Skills:** MS Office, Canva

## SOFT SKILLS

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- Effective communication
- Teamwork and collaboration
- Problem-solving
- Adaptability
- Time management
- Critical thinking

## LANGUAGES

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- English
- Urdu