# Ishika Kumari Kirpalani

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## Education

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| **Ghulam Ishaq Khan Institute of Engineering Science** | **Islamabad, Pakistan** |
| Bachelor of Science \| Computer Sciences | **Sept 2021 - June 2025** |
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| **Rockford Cambridge School** | **Hyderabad, Pakistan** |
| GCE Advanced Level | **Aug 2019 - Aug 2021** |

## WORK EXPERIENCE

**GAO Tek**                                              **Remote | July 2023 – Sept 2023**
Tech intern

• Organized and restructured product documentation and technical files, improving access efficiency by 30%.
• Enhanced sales team response times by optimizing file management and retrieval processes.

**Upwork**                                              **Remote | Jan 2024 – Present**
Freelance Software Developer / Technical Consultant

• Built and debugged web/mobile apps using HTML, CSS, JS, and Flutter with backend integration.
• Delivered remote technical support to clients, resolved bugs across web/mobile apps, and documented recurring issues for long-term solutions.

## PROJECT EXPERIENCE

**Ortho Root Angulation Detection**                                              **May 2024 - Present**
AI-Driven Dental Imaging Analysis | In collaboration with Aga Khan University Hospital

• Integrated an AI system using YOLOv5 and OpenCV to automate dental root detection with 80% accuracy.
• Built a Flutter mobile app and web dashboard, integrated with Firebase and Flask backend.
• Performed image annotation, data preprocessing, and handled edge cases to enhance model performance in clinical settings.
**Technologies:** Flutter, Dart, React.js, Python, YOLOv5, OpenCV, Firebase, Flask, HTML/CSS, JavaScript, Cordova

**Campus Housing Solution**                                              **April 2024 - June 2024**
Web-Based Hostel Administration Tool

• Developed a responsive front-end with React and Bootstrap, streamlining user workflows and improving usability by 20%.
• Integrated MySQL with Laravel and added a Node.js microservice for real-time updates and task automation, reducing load and boosting system performance by 25%.
**Technologies:** PHP, Laravel, Node.js, React, MySQL, Git, REST APIs, Bootstrap, jQuery

**Virtual Personal Stylist:**                                              **July 2024 - August 2024**
AI-Based Clothing Recommendation System

• Developed an AI-driven smart fashion assistant using CNNs and ResNet architectures with TensorFlow and Keras.
• Labeled and preprocessed image datasets for model training; handled edge cases to ensure AI output accuracy by 25%.
**Technologies:** Python, TensorFlow, Keras, ResNet, CNN, NumPy, Pandas, OpenCV, Scikit-learn, Jupyter Notebook, Matplotlib, Flask, JSON, Git

## LEADERSHIP EXPERIENCE

**Association for Computing Machinery**                                              **GIKI**
SoftCom Head                                              **Feb 2024 - May 2024**

• Led software development and communication strategies, elevating workflow efficiency.
• Reduced project delivery timelines by 15% and boosted team coordination by 20%.

**Institution of Engineering and Technology**                                              **GIKI**
Executive Member                                              **Sep 2023 - Nov 2024**

• Led five interactive workshops and technical discussions, engaging 300+ participants.
• Fostered professional growth through knowledge sharing, mentorship, and collaboration.

## CERTIFICATES

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|---|---|
| **Coursera** | **Deep Learning with PyTorch : Generative Adversial Networks** |
| **Coursera** | **Build a Two Screen Flutter Application** |

## SKILLS

- **Languages:** Python, C/C++, SQL, Java, HTML/CSS, Dart, PHP, JavaScript
- **Frameworks/Libraries:** Flutter, TensorFlow, PyTorch, Keras, Flask, React, Laravel, scikit-learn, Bootstrap, NLP
- **Tools/Platforms:** Git, Firebase, PostgreSQL, MongoDB, Oracle, REST APIs, Cisco, Linux (Ubuntu), WordPress
- **Software:** Visual Studio Code, PyCharm, JIRA, Adobe Premiere Pro, Adobe Photoshop, Creo, Canvas