

Rishikesh K

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SUMMARY

Aspiring Software Developer with a strong eagerness to learn and grow in the technology domain. Currently building solid skills in programming, problem-solving, and software development fundamentals. Passionate about designing user-friendly applications and continuously enhancing technical expertise. Motivated to contribute effectively to a dynamic organization, gain practical experience, and evolve into a valuable technology professional.

EDUCATION

Anna University Rajalakshmi Institute of Technology <i>B. Tech Artificial intelligence and Data science</i>	Chennai 2021 - 2025
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Core Competencies

- Android App Development
- UI/UX Design
- Java Programming
- Front-end Development

Projects

Epidermal Carcinoma Detection Using Multimodal Deep Learning

Deep Learning & Computer Vision

Jan 2025 - Mar 2025

- Built a sophisticated multi-input deep learning model combining EfficientNetV2 for advanced image feature extraction and Dense Neural Networks for tabular clinical data fusion (age, demographics, lesion characteristics).
- Engineered robust data pipeline with advanced augmentation techniques, class balancing strategies (upsampling, downsampling, class weighting), achieving high classification performance in malignant skin lesion detection.
- Implemented validation AUC-based checkpointing and cross-validation techniques, significantly improving early diagnosis rates for skin cancer detection with superior generalization capabilities.

Technologies: Python, TensorFlow, Keras, EfficientNetV2, Pandas, NumPy, OpenCV, scikit-learn, Matplotlib

AI-Powered Mining Regulations Assistant

Natural Language Processing & Chatbot Development

Aug 2024 - Sep 2024

- Developed comprehensive conversational AI system with domain-specific knowledge base covering mining industry regulations, acts, and compliance requirements.
- Implemented context-aware query processing and response generation, enabling accurate interpretation of complex regulatory questions.
- Designed scalable architecture supporting real-time query handling and continuous knowledge base updates.

Technologies: Python, Natural Language Processing, Dialog Management, Knowledge Base Systems

Mobile Application Development

Mobile Development & UI/UX Design

- Designed and developed native Android applications using Android Studio and Java, focusing on smooth user experience and functionality.
- Built UI/UX prototypes using Figma and Adobe XD based on user research and modern design practices.
- Implemented responsive layouts using XML and modern Android development principles for different screen sizes.

Technologies: Android Studio, Java, Figma, Adobe XD

Specializations & Certifications

- **Google UX Design Professional Certificate** - Coursera (Google)
- **Google Data Analytics Professional Certificate** - Coursera (Google)
- **Programming with JavaScript** - Coursera (Meta)
- **Introduction to Front-end Development** - Coursera (Meta)

Skills

- Programming Languages:** Java, HTML, CSS
- Development Tools:** Android Studio
- UI/UX & Prototyping:** Figma, Adobe XD
- Soft Skills:** User-centric Thinking, Adaptability, Flexibility, Time Management