

Akhil Ramchand

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Fourth-year **Computer Science student** at Christ University specializing in **AI/ML** with a **minor in Psychology**. I am experienced in working with **Small Language Models**, **context retrieval frameworks**, and **LLM operations**, with a unique interdisciplinary approach that prioritizes **human-centered design** in technical solutions.

Education

Christ University

BTech in Computer Science (AI/ML Specilization)

Minor in Psychology

2022 - 2026

Bangalore, Karnataka

St. Joseph's Boys High School

ICSE + CISCE

Math, Computer Science, Physics, Chemistry, English

2008 - 2022

Bangalore, Karnataka

Experience

MistEO

Paid Intern

May 2024

Bangalore, Karnataka

- Developed a RAG application for summarizing and querying monthly reports, using MongoDB for efficient vector search.
- Implemented TinyLlama for local inference, gaining experience with LLMs, databases, embeddings, and semantic searching.
- Enhanced data retrieval and summarization by integrating advanced language modeling and database techniques.

Center for Professional and Academic Support

Project Lead + Operations

2 years

Christ University

- Managed event logistics and coordination.
- Automated tasks and processes within Google Sheets using AppScripts.
- Gained hands-on experience using Google Docs and Google Sheets.
- Developed comprehensive documentation, including monthly, project, and event reports.

Research & Publications

AI-Regenerated Comic Art Using Fréchet Inception Distance and Generative Models

Awarded **Best Paper** for Emerging Techniques (out of 1100+ submissions) at 7th International Conference on Communication and Intelligent Systems (ICCIS 2025), BITS Pilani

- Led a comparative study on four generative models, using the Fréchet Inception Distance (FID) metric for quantitative analysis.
 - Gained hands-on experience in deep learning model training, data science pipelines, and quantitative research.
 - Explored the application of AI in stylized art and human-computer interaction.
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Projects

OkComputer

3rd Place

Argonyx (RV University's Hackathon)

- This project is designed to read and preprocess resumes, scrape job listings, and recommend jobs to candidates based on the similarity of job descriptions to the candidate's skills and experience from their resume. It shows users their skill gaps and matches for each job posting they're recommended.
- The app uses NLP techniques like tokenization, lemmatization, and TF-IDF vectorization to analyze resumes and job descriptions, providing real-time, relevant job recommendations.

CAPS Online Learning Center

Deployed

Available on Github

- To provide a unified platform where Christ University students can view and access resources such as courses, certifications, and papers that Christ offers them.
- Static Site powered by Vite and Vue; Custom styled using Vue components, CSS and HTML.
- Pages are researched and written in Markdown

Skills

AI/ML

Generative Models, Deep Learning, RAG (Retrieval-Augmented Generation), Prompt & Context Engineering, AI Agents, Embeddings, Vector Databases, Semantic Search

Technical

Python, Java/TypeScript, MongoDB, Git, Vue, AppScripts (for automation), React

Design & Prototyping

Figma, Adobe Illustrator, Adobe Premiere Pro, Canva, Adobe InDesign, Adobe Photoshop

Soft Skills

Project Leadership, Team Management, Communication, Data Analysis, Quantitative and Qualitative Research, Critical Thinking, Human Factors, Human Engineering

Other Achivements

Cybersecurity Club Head, ASCII

Led workshops for the Cybersecurity Club, teaching foundational concepts and terminal skills through practical wargames and emphasizing human factors in security.

Certifications

Machine Learning (Tensorflow) - FreeCodeCamp, 2024

Operationalize Generative AI Applications (FMOps/LLMOps) - Amazon Web Services Certification, 2025

From Relational Model to MongoDB's Document Model - MongoDB University, 2025

Introduction to CyberSecurity - Wipro Training Academy, 2023

Akhilr.tech - Personal Blog

Explores the intersection of AI, psychology, and effective human-agent interaction, with deep dives into topics like metacognition in AI and knowledge distillation.
