Rahulraj P V

IIITMK (DUK) M.Tech CSE (AI) Student | IIM Kozhikode Research Intern
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Education

MTech in Computer Science & Engineering   *Digital University Kerala (Formerly IIITMK)*
With specialization in AI   *August 2022- August 2024*
Post Graduate Diploma Data Science & Analytics   *Kannur University*
Department of IT   *August 2021 - July 2022*
Master of Science in Physics   *Kannur University*
Department of Physics   *July 2019 - July 2021*

Work experience

AI R & D Engineer   *December 2024 - Present*
Kerala Blockchain Academy   *Trivandrum, Kerala*

- Working on projects related to large language models, computer vision, and other advanced technologies in collaboration with experts and researchers in blockchain & AI at KBA.

2. Co-Founder   *July 2024 - Present*
KnowLumi   *Kozhikode, Kerala*

- Co-founded a platform empowering students to get opportunities like IITians using AI. Focused on developing AI tools & fostering connections with expert mentors.

3. Research Intern   *July 2023 – December 2023*
Indian Institute of Management–Kozhikode (IIM–Kozhikode)   *Calicut, Kerala*

- Completed a project on Large Language Models under the mentorship of Dr. Mohammed Shahid Abdulla, Associate Professor in the Department of Information Systems at IIM Kozhikode.

4. Data Scientist Intern   *February 2022 – June 2022*
First Principle Labs   *Calicut, Kerala*

- Developed a tool for forecasting the Real-time big data of Google Trends keywords using Google Trends. For future prediction, different Machine learning techniques are used.

5. AI R & D Intern   *February 2022 - May 2022*
PixDynamics   *Kochi, Kerala*

- Developed a program to extract data from demand drafts , passports & cheques of major banks in India under the guidance of senior AI developers in PixDynamics.

6. Research Intern   *April 2021 - June 2021*
CSIR National Physical Laboratory   *New Delhi, India*

- Completed a research project on "Impact of Covid - 19 on Angstrom Exponent using NASA's AERONET project" under the guidance of Dr. Sumit Mishra, Principal Scientist, CSIR NPL.

Research Papers

1. Monetize the dual: A data analytic approach for native language & prequel movies popularity analysis", International Conference on Data Analytics & Insights (ICDAI'23) - Springer   *Rahulraj P.V., Sanil J., Anoop V. S., Asharaf S.(Published)*

2. Changes in Atmospheric Air Quality in the Wake of a Lockdown Related to Covid – 19 in the Capital City of Southern State of India, Kerala , IJAES'22 (International Journal of Agriculture & Environmental Science) *Rahulraj P.V., Ebin Antony (Published)*

Research Projects

1. India's First AI campus Radio : Developed an AI-driven campus radio using large language models, optimizing engagement through dynamic genre sequencing & personalized content.(Currently on testing phase - Available on Google play store)

2. Predictive Algorithm for Movie Success: Created an algorithm inspired by DNA sequencing to analyze genre patterns & predict movie success based on narrative structures & audience engagement using Deep learning techniques and large language models.

3. Real - Time Film Analysis with Computer Vision & Neuroscience: Studied the impact of facial expressions & blink rates on film reception, linking emotional & attentional responses to audience engagement.

4. LLM Based Gamified Decision Tree-Based Story Writing Tool: Developed an interactive AI tool using decision trees & gamification to generate branching narratives, enabling dynamic, user-driven storytelling.

Awards & Achievements

1. Outstanding Student Award, Digital University Kerala *2022-24 Batch*

2. Smart India Hackathon 2023 - University Level *First*

3. Cisco ThingQbator National Level Tech Quiz & Sustainability Hackathon *Second*

4. Sharktank Hackathon - Google Developer Student Club, WoW Kerala *First*

5. Directed the Malayalam musical album 'Silent Spring', which received significant critical acclaim & was selected for publication on Amazon Prime.

Skills

1. **Programming Languages:** Python, R

2. **Tools & Technologies:** Machine Learning, Computer Vision, Deep Learning, Large Language Models (LLMs), Generative AI, Natural Language Processing (NLP), Data Science & Analytics, Data Visualization, Statistics, Prompt Engineering, TensorFlow, Scikit-learn, Pandas, PyTorch, Origin Pro, Figma, PyQt5, Streamlit, Git, Microsoft Office, LaTeX, LangChain, PEFT, LoRA, GitHub. EEG (Practical Experience), Cognitive Science, Neuroscience.

3. **Creative Skills:** Screenplay Writing (awarded at national & university levels), Photography, Film Direction, Video Editing, Poster Design, PowerPoint (Presentation Specialist).

Other Experiences

1. Google Developer Student Club WoW Kerala State 2023 *Media Team Lead*

2. Institution Innovation Club Student Lead *DUK*

3. COO of Innovation Club & Student Placement Cell coordinator *DUK*