

# RAJESH KUMAR K

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## Summary

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A final-year Information Science and Engineering student and Red Hat Certified System Administrator seeking a Software Engineer Internship at Red Hat. Eager to apply a strong foundation in Python, Linux systems, and AI to contribute to projects involving Red Hat Enterprise Linux (RHEL) and AI, while learning from senior mentors in a collaborative, open-source environment.

## Education

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### Jyothy Institute of Technology

*Bachelor of Engineering in Information Science (CGPA: 7.5)*

*Bengaluru, India*

*Aug 2022 – Present*

### SSMRV PU College

*Pre-University Course – PCMCs (Percentage: 85%)*

*Bengaluru, India*

*Jun 2020 – Mar 2022*

## Skills

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**Technical Skills:** React, RedHat Linux, Python, C/C++, PyTorch, Tensorflow, OpenCV, Git, FastAPI, LangChain, Redhat Ansible.

**Soft Skills:** Public Speaking, Leadership, Team Collaboration, Project Management, Effective Communication, Mentoring

## Projects

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### Histopathology-based Tumor Detection

- Built a end to end pipeline of YOLO and a bcosified resnet50, which is inherently interpretable.
- Gained hands-on expertise in medical image preprocessing, handling severe class imbalance and learnt the value of interpretability for AI in health care

### Multi purpose chatbot

- Developed an AI-powered chatbot using LangChain, Cohere LLMs, and FAISS, enabling retrieval-augmented generation (RAG) for context-aware responses.
- Built a Streamlit interface supporting chat history, embeddings, and scalable text chunking for domain knowledge queries.

## Certifications

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- RedHat Certified System Administrator
- Toastmasters International – Innovative Planning Pathway

## Awards and Recognitions

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### Toastmasters international

- First place at club-level International Speech Contest.
- Third place at area-level International Speech Contest.
- Leader of the Term at Republic of Toastmasters.
- Triple Crown award recipient.

### Rotary International(Rotaract President[2024-25])

- Aspiring Club for 3rd Quarter – RY 2024-25.
- Best Club Service Project award.
- People's Choice – Redefining Rotaract Initiative.

## Hobbies

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- Volunteering for social causes
- Public Speaking
- Reading Poetry