Kapil G Ratan

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PROFESSIONAL SUMMARY

Motivated and results-driven Computer Applications student (BCA, CGPA: 9.43) with hands-on internship experience in Machine Learning, Python, and Quantum Computing concepts. Skilled in data analysis, software development, and predictive modeling. Strong team player with proven ability to present technical ideas and research findings. Eager to contribute technical expertise in AI/ML and software development projects.

TECHNICAL SKILLS

Programming: Python, Java, SQL
AI/ML: Machine Learning, Deep Learning
Tools/Technologies: TensorFlow, Scikit-learn, MySQL, Cloud Computing
Soft Skills: Problem-Solving, Presentation, Team Collaboration

INTERNSHIP EXPERIENCE

Machine Learning Intern | Pravinya InfoTech (Onsite)   *Feb 2024 – Jun 2024*
- Researched Quantum Machine Learning for optimized clustering.
- Gained hands-on experience in analytical modeling and optimization.
- Published and presented a Springer paper at 5th CIS 2024.

AIML Trainee Intern | Pantech.AI (Remote)   *May 2024 – Aug 2024*
- Experimented with machine learning algorithms for data processing and predictive modeling.
- Improved understanding of ML workflows, preprocessing, and performance evaluation.

Internship Trainee | CEVI (Onsite)   *Feb 2025 – Apr 2025*
- Worked with annotation tools, 3D modeling, and game development basics.
- Collaborated on project prototypes to enhance technical versatility.

PROJECTS

Quantum Enhanced Cluster Optimization using K-Means
- Implemented Quantum-Inspired K-Means and Quantum K-Means to improve clustering efficiency and quality.

Battery Life Prediction using Boosting Algorithms
- Built predictive models using GBM, XGBoost, and AdaBoost for energy optimization in autonomous robots.

Air Quality Classification using RNN Architectures
- Applied RNN, LSTM, and GRU models to improve multi-class classification accuracy in air quality monitoring.

Student Registration Website (Java + MySQL)
- Developed a servlet-based web application for registration with database integration and user management.

CERTIFICATIONS

J.P. Morgan - Software Engineering Job Simulation	Forage	*2025*
Introduction to Machine Learning	Infosys Springboard	*2024*
Introduction to Computer Vision	Infosys Springboard	*2024*
Python for Machine Learning	Great Learning Academy	*2024*

EDUCATION

KLE Technological University, Hubli	**Bachelor of Computer Applications** | CGPA: 9.43/10	*2022 – 2025*
PC Jabin Science College, Hubli	**Pre-University (PCMB)** | 83.16%	*2020 – 2022*

ACHIEVEMENTS & LEADERSHIP

1st Place – State-Level Paper Presentation, KLE College, Chikodi	*2024*
2nd Place – Paper Presentation & Quiz, ADVITIYA 2K24, KLE IT, Hubli	*2024*
Organized and managed Department-level Technical Events at KLE Technological University	