

Abhinav Raja Raizada

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EDUCATION

SRM Institute of Science and Technology, Kattankulathur <i>B.TECH in Computer Science and Engineering, CGPA: 9.24</i>	Chennai, Tamil Nadu 2021 – 2025
SKD Academy <i>ISC: 87%</i>	Lucknow, Uttar Pradesh 2019 – 2021
La Martiniere College <i>ICSE</i>	Lucknow, Uttar Pradesh 2007 – 2019

SKILLS

Languages: Python, C/C++, SQL
Libraries and Tools: NumPy, Pandas, Scikit-learn, OpenCV, NLTK, TensorFlow, PyTorch, Keras, PowerBI, Tableau, Excel, Git, Docker, AWS, Microsoft Azure, Terraform, Ansible, Kubernetes
Analytics: Supply Chain Operations, BI product development, Customer interaction, Feature mapping, Ad-hoc analysis

EXPERIENCE

Research Intern <i>Samsung R&D Institute, Bangalore, India</i> <ul style="list-style-type: none">Led successful implementation of Automatic Read Speech to Conversational Speech Recognition Project with Samsung Mentorship Team.Achieved 100% completion mark from mentors. Collaborated with a cross-functional team to integrate NLP models into existing frameworks.	Sep, 2023 – Apr, 2024
Summer Intern <i>Uttar Pradesh Metro Railway Corporation, Lucknow, Uttar Pradesh</i> <ul style="list-style-type: none">Gained hands-on experience in IT department of UPMRC during Summer Internship, enhanced skills in PowerBI & SQL through a Data Science Project directing employee complaints.Developed and maintained business reports to support Supply Chain operations. Provided analytical support.	Jun. 2023 – Jul, 2023
Artificial Intelligence Researcher <i>Zetpeak, Chennai, India</i> <ul style="list-style-type: none">Engaged in an immersive paid online internship, earning Rs. 5000 per month, and collaborating closely with experienced professionals. Focused on gaining practical skills and knowledge to upscale academic and professional growth in the AI/ML field, conducted ad-hoc analysis to investigate system decisions and metrics impact.	Jul, 2023 – Oct, 2023

PROJECTS

- **Instance Segmentation:** Developed an instance segmentation model trained on Sentinel-2 imagery. Accurately delineates agricultural field boundaries but struggles with crop type prediction. [Link]
- **Disease Detective:** Developed Disease Detective, a robust medical diagnosis chatbot using KNN and Decision Trees on 1100 data points, providing personalized disease identification, severity assessment, & precautionary advice. [Try It!]
- **Automated Deploying AWS using Gitlab and Terraform:** Automated EC2 instance creation in user-defined VPC & subnet using AWS, GitLab, Terraform. Included init, plan, user approval, apply, destroy stages with dynamic security group config, auto-scaling via CloudWatch. [Try It!]

ACHIEVEMENTS & AWARDS

- **Corporate Domain Lead:** Led the Corporate Domain, formerly Apple Developers Group (ADG), overseeing club operations and event management. Coordinated with multiple business teams for BI product development and maintenance.
- **Finalists** in Smart India Hackathon (Internal Round) and Philips Ideathon.

PUBLICATIONS

“Analyzing the Efficacy: A Critical Assessment of a Symptom Analysis and Initial Diagnosis Chatbot for Disease Detection”, *Technological Innovation towards Digital Transformation Arena (ICSCSP2024 · VOLUME-I)*, Lecture Notes in Networks and Systems (LNNS), Springer, June 2024. [Link]