Uday Jartarghar

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 GitHub   👤 Portfolio   </> Coding

EDUCATION

- **KLE Technological University, Hubballi**   *2022-2025*
  B.E, Computer Science - AI   **CGPA: 9.12**

- **JSS K.H.K Institute of Engineering, Dharwad**   *2019-2022*
  Diploma in Computer Science and Engineering   Percentage : 76.67

- **Shree Mahaveer School, Hubballi**   *2008-2019*
  Class X   Percentage : 84.64

EXPERIENCE

- **Knit Space**   *Jan 2024 - Jun 2024*
  Project Intern - Machine Thinking   www.knitarena.com
  - Generated a **relation graph** by applying a combinatorial explosion-like algorithm based on **Hamming** similarity
  - Constructed a knowledge path from the generated premises using a **DFS** with a backtracking-like algorithm.
  - Formed abstraction of the path as central nodes of the **community structure** with **Girvan's Newman** algorithm

- **Maiti Labs**   *Dec 2023 - May 2024*
  Software Engineering Intern at start-up fostering Climate Action   www.maitilabs.org
  - Developed a **Full-text search** feature for the awareness portal, created forms for blog posts, validation with **Yup.**
  - Scraped news articles, processed them using the **PaLM API**, stored the results in **JSON** format.
  - Led a team of **five** in researching image compression using deep learning techniques for image modality.
  - Worked on time series analysis using **ARIMA** and **SARIMAX** models on analyzing climate data.

ACHIEVEMENTS

- Ranked among the **Top 10** teams in the **Karnataka State Police 2024** Hackathon, competing **100+** teams.

- Achieved a rank of **242** in the highly competitive D-CET examination, conducted across Karnataka

- Solved **450+** problems, contest rating of **2018** as **specialist** at coding ninjas , **3*** at codechef

PROJECTS

- **Loan Management System**   *Feb 2024 - Mar 2024*
  https://github.com/ud4yy/LoanManagement_System.git
  - Tools & technologies used: **SpringBoot, MySQL, SMTP, JWT, OpenPDF, Postman, GitHub**
  - Developed 10+ RESTful APIs to manage loan applications, transactions, and repayments efficiently.
  - Implemented user authentication and authorization using Spring Security and **JWT** for secure access to APIs.
  - Engineered **PDF generation** of transaction statements using OpenPDF, enabling users to download reports.
  - Integrated SMTP for **real-time email notifications**, informing users of loan application status (approval/rejection).
  - Conducted API testing and validation with **Postman**, ensuring robustness and reliability of the service.

- **Accident Detection System with Vision Transformer**   *Dec 2023 - Jan 2024*
  Novel accident detection framework: https://github.com/ud4yy/ViT-AccidentDetection.git
  - Developed state-of-art framework for accurate accident detections with reduced false positives.
  - Follows a **multi-layered** approach, employing YOLOv8, ByteTrack for accurate vehicle detection and tracking.
  - Designed an algorithm to detect **abrupt changes** in vehicle movements, classified using **Vision Transformer (ViT).**
  - Achieved state-of-art results having **detection rate of 94.4%** with a **False Alarm Rate** of 0.00631%.
  - Extended this work into Karnataka State Police 2024 Hackathon, incorporating accident detection, a **rapid notification system**, and **interactive data analytics** for accidents and police data.
  - Publication: 300+ Reads | https://dx.doi.org/10.21203/rs.3.rs-3903862/v1

SKILLS

Languages: C, C++, Java, Python, SQL
Subjects: Operating System, DBMS, Computer Networks, Data Structures and Algorithms, Deep Learning
Frameworks and Tools: Reactjs, Spring Boot, GitHub, MySQL, MongoDB, AWS, Docker
Soft Skills: Leadership, Teamwork, Problem Solving, Time Management

COURSES AND CERTIFICATIONS

- Git Essential Training   Machine Learning Specialization - deeplearning.ai

- Juniper Networks Certified Associate - (JNCIA-Junos)   Linux Unhatched - Cisco Academy