

Kushagra Tomar

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[leetcode/KushagraTomar](https://leetcode.com/KushagraTomar)

EDUCATION

KLE Technological University, Hubballi

B.E, Computer Science and Engineering

CGPA: 9.30

2020 - 2024

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript, TypeScript, HTML, CSS

Frameworks: TensorFlow, PyTorch, React, Redux, NodeJS, Express

Libraries: OpenCV, Keras, Scikit-Learn, NumPy, Pandas

Development Tools: ChatGPT, Git, Github, Docker, Kubernetes, Jenkins

Databases and Cloud Technologies: MySQL, MongoDB, Firebase, AWS

Other Technologies: RESTful APIs, Linux

WORK EXPERIENCE

Bosch Global Software Technologies

Jan 2024- May 2024

Associate Software Engineer Intern

Pune

- Developed and deployed ML models on Raspberry-Pi for an Advance Driver Assistance System(ADAS), with capabilities such as Lane Guidance, Lane Departure Warning, and Collision Warning.
- Implemented various optimization techniques such as weight pruning, quantization, and used ONNX Runtime, which reduced CPU latency by 50% and increased inference speed by 70%, allowing real-time inference.

YOLO

Aug 2023 - Dec 2023

Backend Engineer Intern

Delhi

- Implemented and integrated various features, including giveaways, subscriptions, and payment gateways, resulting in a 57% increase in user engagement.
- Maintained and optimized the existing codebase. Utilized AWS to scale the product to accommodate an increased user base.
- Actively participated in the product development lifecycle, from ideation to deployment and maintenance.

PROJECTS

Attention Based Image Caption Generation | *InceptionV3, GRU, Attention Mechanism, TensorFlow*

- Generating semantically and grammatically correct summary of the Image.
- The model achieved a BLEU score above 90% for the generated captions.

Performance Evaluation of 5G RAN Slicing | *eXP-RAN emulator, Linux, Matplotlib, Docker, Python*

- Generating network slices on shared infrastructure with different QoS needs.
- Evaluated the QoS of FFmpeg video streaming on the created network slices.

AlgoLab: DSA Preparation MERN Application | *React, NodeJS, Express, MongoDB, Postman*

- Providing a one-stop platform for popular coding sheets such as Striver's SDE Sheet, and LeetCode 75.
- Implemented the YouTube API, to fetch video solutions for each problem within the platform.
- Implemented user dashboard, allowing users to monitor their progress and performance.

Rentify: Apartment Renting MERN Application | *React, VueJS, Stripe, NodeJS, Express, MongoDB*

- Allows users to book apartments and effortlessly list their apartments online for rent.
- Users can manage their booking history and search for apartments via search bar.
- Hosted the frontend on Netlify and the backend on Render.

CERTIFICATES

- Junos (JNCIA-Junos) certification
- Udemy Web Development Masterclass
- Certificate of Presentation at ICSSIT 2023, Tirunelveli
- Certificate of Presentation at ERCICA 2023, Bangalore

ACHIEVEMENTS

- Winner of TechFlame Hackathon conducted by Mercedes Benz RD India.
- Participated in Electhon Hackathon conducted by Election Commission of India.
- Contributed in Google Summer of Code(GSoC), an open-source program.