Akashranjan Singh

Bio: I am a final year B. Tech student at NIT Trichy.

Github: github.com/akashranjan027

EDUCATION

National Institute of Technology

Trichy, India

Bachelor of Technology - Electronics and Communications Engineering; CGPA: 8.02

July 2019 - June 2023

Mobile: +91-775-6069-556

Email: akashranjan027@gmail.com

Courses: Operating Systems, Data Structures, Machine Learning, Networking, Databases

SKILLS SUMMARY

• Languages: C++, JavaScript, SQL,Python, PHP

• Frameworks: NodeJS, ReactJS, ExpressJS, TensorFlow, Keras

Tools: GIT, MongoDB, MySQL
Platforms: Linux, Web, Windows, Arduino
Soft Skills: Leadership, Public Speaking

EXPERIENCE

Research Internship at NIT-Trichy

Trichy

Research Intern (Full-time)

May 2022 - July 2022

- o Single-image Deraining: Solved the issue of very deep running Models using State-of-the-art Vision transformers.
- Vision Transformers: Improved upon the existing technology of Vision Transformers which allow better results in limited Computational capabilities.
- o Multi-Dconv Head: Implemented a Multi- Deconvolution Head attention to significantly improve the performance.
- Gated Dconv: Implemented a Soluion similar to Residual networks for Vision transformers.
- Results: Obtained a PSNR greater than 33 db on the Rain100L, Rain100H datasets improving on previous similar research.

PROJECTS

- Lab Buddy Resource Booking website (Web Development): (Work in progress)
 - o Tech: NodeJS, ReactJS, ExpressJS, JWT, MongoDB
 - Slot System: Implemented a slot based System for the DL laboratory for better management of available Computational resources.
 - Authentication and Authorization: Built in NodeJS with ExpressJS handling all the APIs and JWT was used to solidify the Authentication part.
 - $\circ\,$ Database: Implemented and maintained the various CRUD operations on MongoDB Atlas Cloud .
- Hello Buddy Chat website (Web Development, WebSockets):
 - o Tech: NodeJS, ReactJS, ExpressJS, JWT, MongoDB
 - Frontend: Front-end was built using ReactJS with the help of Chakra UI library for personal as well as Group Chats.
 - Authentication and Authorization: Built in NodeJS with ExpressJS handling all the APIs and JWT was used to solidify the Authentication part.
 - Database: MongoDB Atlas was used as the Database Server for this Project. Various CRUD operations implemented.
- Voltic (Smart E-Grid Dashboard, Recharts ,IoT):
 - $\circ\,$ Tech: NodeJS, ReactJS, ExpressJS, MongoDB
 - o Dashboard: Built using ReactJS with the Chakra UI library.Recharts library was used to include various charts.
 - REST APIs: Built in NodeJS with ExpressJS handling all the APIs performing all the analytics.
 - o Database: MongoDB Atlas was used as the Database Server for this Project.CRUD operations were followed .
- Ecommerce Website (Website Development, Shopping website):
 - o Tech: HTML, CSS, JavaScript
 - Frontend: Built using HTML, CSS, JavaScript. Implemented Responsive design using Bootstrap and CSS.

ACHIEVEMENTS

- Secured AIR 9 in CodeChef June Long Two challenge among 2800+ participants.
- Secured AIR 123 in CodeChef Starters 44 among 10,000+ Participants.
- Secured Rank 19 in MTSE(Maharashtra Talent Search Exam) in the State level conducted by Centre for Talent search and Excellence, Pune - 2016

Volunteer Experience

Executive Committee member, NSS

Worked as a ExCom in NSS, National Service Scheme, handling and managing all the schedules of events and programmes

Coordinator, Publicity Team, Probe

Coordinator of Publicity Team of Probe, the National level technical symposium of department of ECE, NIT Trichy.