

NILABJA SARKAR

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EDUCATION

M.TECH Computer Science, University of Hyderabad Expected 2023
Relevant Coursework: Computer Networks, Operating Systems, Algorithms, Deep learning. GPA: 8.5

B.TECH Information Technology, Jalpaiguri Govt. Engineering College 2014 - 2018
Relevant Coursework: Database, SQL, Programming and Data Structure, XML GPA: 8.3

SKILLS

Programming Skills C, C++, JAVA, Python, JAVAScript, Object Oriented Programming(oops).
Technical Skills Kubernetes(k8s), Linux, Git, Docker, CI/CD, SDLC

EXPERIENCE

Software Developer Intern Aug 2022 - Jul 2023
ACL digital *Hyderabad, India*

- I accomplished successful implementation of Kubernetes projects by efficiently managing YAML files, deploying applications, and creating docker images.
- I accomplished the development of a JavaScript and Node.js application in the backend, seamlessly connecting it with a Docker container housing a MongoDB database.
- Worked collaboratively in a 5-member team to explore and validate use cases for gateway API.

PROJECTS

Automatic Fish Detection. In this project we developed a solution for image classification of fish species found in Indian seas.

- Implemented transfer learning models (MobileNet V2, ResNet-50, VGG-19) to classify six tuna fish species and achieved 97% accuracy. Used augmentation techniques to increase data-set volume and model performance.
- As a Team project we have Collected and curated a unique data-set of Indian sea fish species(6000 image data) sample, Training data-set on our own.
- Used TensorFlow, OpenCV, Python, Fast.AI, PyTorch, Keras, NumPy, scikit-learn, Matplotlib, Seaborn, Pillow.

MAZE solver Visualization. 🧠 Designed a visual maze solver using Python and Tkinter. Performed Unit Testing

- It draws a randomized maze using BFS algorithm and then systematically solves it.
- Here I have used Breath first search(BFS) and Depth first Search(DFS) algorithms.

Password Checker. 🧠 Developed a secure password checker tool using python and a Pwned Password API

- Implemented an API integration that allows users to verify if their passwords have ever been compromised in data breaches.
- This tool provides valuable insights and helps users identify the need for password updates or improvements to enhance their online security.

EXTRA-CURRICULAR ACTIVITIES

- 1st Prize in Smart India Hackathon, internal Hackthon conducted by University of Hyderabad
- **Volunteer Experience:** Teacher at Jyoti(NGO JGEC).(2016-2018)