Subhash Sarangi

Portfolio: subhash3.github.io/
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EDUCATION

- **University of Hyderabad** Hyderabad, India
  Integrated M.Tech - Computer Science; GPA: 8.2 *Jul 2017 - Present*
  Courses: *Operating Systems, Data Structures, Algorithms, Neural Networks, Networking, Databases*

SKILLS SUMMARY

- **Languages**: Python, C/C++, Typescript/JavaScript, SQL, Bash
- **Frameworks**: Flask, MERN, PyTorch
- **Tools**: GIT, Dagster, LaTeX, Docker, ETL
- **Platforms**: Linux, Web, AWS

EXPERIENCE

- **GE Digital** Remote
  Software Engineering Specialist *Jan 2022 - Present*

- **GE Digital** Remote
  Digital Technology Intern *Jan 2022 - July 2022*
    - : Designed and developed a fully customizable dashboard with ReactJs
    - : Researched on various solutions to implement a data ingestion pipeline and built appropriate prototypes.

- **The YoungMinds** Remote
  Full Stack Developer Intern *Sep 2022 - Mar 2021*
    - : Designed and Developed a chat application for institution's educational needs.
    - : Implemented a live streaming application to facilitate online classes for over 5,000 students through the company's platform.

- **Indian Institute of Technology** Kanpur
  VAPT Intern *May 2017 - Jul 2019*
    - : Vulnerability Assessment and Penetration Testing in the field of Web application Security.
    - : Performed a comprehensive examination of potential web application vulnerabilities.
    - : Established a firewall with a proxy server to prevent malicious activities.

PROJECTS

- **Sorting Visualizer**:
    - : Developed a React + Typescript web app to visualize 6 different sorting algorithms with appropriate animations.
    - : Covered major algorithms such as Merge sort, Quicksort, Heap Sort.

- **Feed Forward Neural Networks Library (nicenet)**:
    - : Programmed an open-source feed-forward neural networks library from the ground up.
    - : Added support for exporting and loading functional models, for predictions, as well as for other enhancements.
    - : Published as a pip package on PyPI. Reached over 6000 downloads to date.

- **Covid19 Predictions API and Dashboards for India, US and Russia**:
    - : Node API which provides next 7 days' predictions of several countries using the covid19 time series.
    - : Designed a REST API to serve the predictions of the covid19 cases in 3 countries along with other insights.
    - : Predictions are generated from a data-driven model adapted from the SEIRD epidemiology model.
    - : Time series of covid19 cases are fed to the model regularly.

- **Handwritten Digit Recognizer(MNIST)**:
    - : Modelled a neural network from scratch that can recognise handwritten digits with an accuracy of 98.86%
    - : Trained the model with 50,000 samples of the MNIST dataset.

AWARDS AND ACHIEVEMENTS

- Winner of hackmakers' #buildwithai hackathon.
  Bagged the first rank among 4500 participants in Predictive Algorithm Challenge.
- Codechef Certified Programmer.
  Qualified the CodeChef CCDSAP certification test.
- Code-In-Lockdown AIR 10 Holder.
  Secured 10th position in the national level 15 days coding challenge conducted by IEEE Kerala and IEEE FISAT SB.
- HCL #betterhealth #codeforcovid19 hackathon semi-finalist.
  One of the top 32 teams among 7500 participants in the hackathon conducted by HCL.
- Given the title of "Intern of the Year(2020)" at The YoungMinds

VOLUNTEER EXPERIENCE

- **Teaching Assistant** University of Hyderabad, India
  Assisted over 20 students in their Machine Learning course