Subhash Sarangi

Portfolio: subhash3.github.io/
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EDUCATION

- **University of Hyderabad**   Hyderabad, India
  Integrated M.Tech - Computer Science; GPA: 8.29   *July 2017 - Aug 2022*

SKILLS SUMMARY

Languages	Typescript/JavaScript, Python, C/C++, SQL, Bash	**Frameworks**	MERN, PyTorch
Tools	GIT, Redux, LaTeX, Docker, Playwright	**Platforms**	Linux, Web

EXPERIENCE

- **GE Vernova**   Bangalore
  Software Engineering Specialist   *Aug 2022 - Present*
  - : Worked on various aspects of Asset Performance Management   application, including fixing the existing defects and supporting the team to KLO throughout various releases
  - : Co-Implemented Asset 360, a micro application written in React, that provides insights about a selected asset through configurable dashboards. Also fully automated the end-to-end testing with playwright
  - : Implemented a generic HtmlToPDF library to print web pages while handling page breaks
  - : Currently am a part of the team to revamp the existing APM Datasheet with React, Redux and Lit   .
  - : Created the entire CI/CD pipeline for Datasheet to build, test, and deploy the app to npm using Jenkins.

- **GE Vernova**   Bangalore
  Digital Technology Intern   *Jan 2022 - July 2022*
  - : Designed and developed a fully customizable dashboard with ReactJs for a product called Industrial Data Diagnostics
  - : Researched on various solutions to implement a data ingestion pipeline and built appropriate prototypes.

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

- "Impact Award" winner at GE.
  One of the awardees of the "Impact Award" under the category of "Deliver with Focus" during the Engineering Recognition Day, 2023 at GE
- 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