Subhash Sarangi

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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, Dotnet
Tools	GIT, Redux, LaTeX, Docker, Playwright	**Platforms**	Linux, Web

EXPERIENCE

- **GE Vernova**   Bangalore
  Software Engineer   *Aug 2022 - Present*
  - Defect Resolution & KLO Support: Worked on various aspects of the Asset Performance Management application, including fixing existing defects and providing support for the team throughout various releases.
  - Co-Implemented Asset 360: Contributed to the development of Asset 360, a micro-application built with React that offers insights into selected assets through configurable dashboards. Fully automated end-to-end testing using Playwright.
  - HtmlToPDF Library Implementation: Developed a generic HtmlToPDF library capable of printing web pages with proper handling of page breaks.
  - APM Datasheet Revamp: Currently involved in revamping the existing APM Datasheet using React, Redux, and Lit. Established the entire CI/CD pipeline for the Datasheet project to build, test, and deploy the application to npm using Jenkins.

- **GE Vernova**   Bangalore
  Digital Technology Intern   *Jan 2022 - July 2022*
  - Customizable Dashboard with React.js: Designed and developed a fully customizable and interactive dashboard using React.js, enhancing the user experience and enabling efficient data visualization and monitoring for Industrial Data Diagnostics.
  - Data Ingestion Pipeline Research and Prototyping: Conducted extensive research on various data ingestion solutions, evaluating their feasibility and effectiveness. Built and tested multiple prototypes to ensure optimal performance and integration with the existing system, facilitating smooth and efficient data ingestion.

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.

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