Joshita Das

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EDUCATION

- **Vellore Institute of Technology** — Chennai, India
  Bachelor of Technology - Computer Science Engineering ; GPA: 8.35 — *August 2021 - June 2025*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Robotics, IoT, Sensors and Actuators*

SKILLS SUMMARY

- **Languages**: C++, Haskell, Python, C, SQL, GoLang, JAVA, JavaScript, R
- **Frameworks**: Scikit, TensorFlow, Keras, Flutter, Flask, NodeJS
- **Tools**: GIT, MySQL, SQLite, Sphinx, LaTeX, Matlab, ThingsBoard, HiveMQ, Anaconda, Node-RED, Supervisor
- **Platforms**: Linux, Web, Windows, Arduino, Raspberry, AWS, Azure
- **Soft Skills**: Leadership, Program Management, Writing, Public Speaking, Critical Thinker

EXPERIENCE

- **University of Auckland and Signal Corporation Limited - New Zealand** — Remote
  Student Micro-intern — *July 2023 - Aug 2023*
  - **Alternative Solutions for CLAVIN-Nerd**: Improvise Named Entity Recognition
  - **Geo Locate**: Modifying the geoparsing & geo-locating CLAVIN to recognize locations worldwide and in various hierarchies increasing effectiveness by 63%.
  - **Integrating with Stanford CoreNLP NER**: Integrating the modified CLAVIN with the JAVA-based NLP.
- **AI with AWS - Corporate Gurukul** — Remote
  Teaching Assistant — *June 2023 - July 2023*
  - **Colaborated with AWS trainers**: Strategized with the trainers to design an ML curriculum that would help students understand concepts of AI using the AWS platform.
  - **Impact**: Course has been taken by 40+ students and is an addition to the courses on Corporate Gurukul.
- **TalenSprint** — Hybrid
  Software Intern — *May 2023 - July 2023*
  - **Dashboard to visualize background Linux scripts**: Enabled a dashboard by the Supervisor software to help operations department visualize the scripts.
  - **Optimization and Customization of Supervisorctl**: Documented and analyzed the inbuilt code for Supervisor web and modified the program to help the company receive desired results
- **National University of Singapore & HPE** — On-Site
  Academic Intern — *June 2022 - July 2022*
  - **Deep Learning solution to analyze Autism**: Developed a Deep learning solution to identify Autism based on Image Classification with an accuracy of 88%.
  - **Deep Learning and Data Analytics**: Programmed VGG-19 and Exception models to understand the involvement of facial features in detecting Autism.

PROJECTS

- **Suraksha - Police monitoring system (Computer vision, HTML, CSS, JS, and Firebase.)**: App & Web-based solution to track police officers on duty using GPS and resolve crowd accidents by 70%. (March '23)

- **Continual Learning-based Malware Detection System (Continual Learning, NLP)**: Model to detect new malware 60% more effectively by comparing Class IL, Task IL and domain IL. Tech: Python, Anaconda& OpenCV. (August '22)

- **Object detecting micro-car (Ultrasonic Sensors, Arduino UNO, Motors)**: Detecting obstacles robot making decisions based on the sensor data. Accuracy of the robot being 98% .(May '23)

- **Building Neural Network using Napkin Mathematics (Machine Learning & mathematics)**: Built and Programmed in Python a perceptron, sigmoid and various layers from scratch to understand and research the underlying mathematics. (Feb '23)

- **Product Demand Analysis(Machine Learning & Natural Language Processing)**: Using Machine Learning models to predict the drop in prices in products by analyzing customer behaviours which will help reduce loss by 40 %. (On-going)

HONORS AND AWARDS

- **Women Engineers' Scholar supported by Google (June 2022)**: One of the 250 scholars selected from over 30,000 eligible applicants across the country. Courses: Linux, Haskell, Set-theory, Golang, Machine Learning
- **Honeywell Leadership Challenge Academy Ambassador (September 2022)** : One of the 2 students selected from thousands of applicants ranging from 60 countries to represent Honeywell in the US SPACE AND ROCKET CENTRE and guide 300 students to understand STEM concepts.

VOLUNTEER EXPERIENCE

- **Finance and Marketing Lead at Red Ribbon Club** — Chennai
  Help build a more inclusive environment for people who suffer from AIDS and mental illness and spread awareness.
- **Member of Google Developers Student Club** — Chennai
  Organized events, conducted workshops, and delivered workshops in data Science