IIIT Bhubaneswar

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Rastogi, Vallari

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| Objective |  | To take a performance oriented role, essentially including creativity and innovation. Where there are opportunities of growth in terms of skill and scale, with positive work life balance. |
| Education |  | K.C.M. School – CBSE - Moradabad, uttar pradesh – Class 10th 9.8 GPA K.C.M. School – CBSE - Moradabad, uttar pradesh – Class 12th 89.6 % in Boards [94% in PCM] IIIT bHUbaneswar – Bhubaneswar, ODISHA – Bachelors in computer science (In continuation; pursuing fourth year)  7.01 GPA till 6th semester |  | K.C.M. School – CBSE - Moradabad, uttar pradesh – HIGH SChool 9.8 GPA K.C.M. School – CBSE - Moradabad, uttar pradesh – ? 89.6 % in Boards [94% in PCM] IIIT bHUbaneswar – Bhubaneswar, ODISHA – Bachelors in computer science (In continuation; pursuing fourth year)  7.24 GPA till 6th semester |
| Skills & Abilities |  | **Data Structures and Algorithms**   * Strong hold on Data Structures and Algorithms   **Machine Learning & Deep Learning**   * Credible Competency to analyze the dataset and applying algorithms accordingly. * Credible competency in Deep learning using Neural Network /or/ Convolutional Neural Network /or/ Recurrent Neural Network for Image Recognition and Natural Language Processing. In-Depth understanding of Tensorflow, Keras   **Computer vision**   * Hands-On Experience of OpenCV   **Multinode Distribution Training**   * Hands-On experience of training distributed Neural network using OpenMPI & IntelMPI beneath Ubers’ Horovod   **Docker**   * Hands-On Experience on Dockers   **Blockchain** Enthusiast   * Working on a blockchain project. The project is about enhancing speed and scale solutions to existing base chains/ transactions |
| Experience |  | Technical CONSULTANT AND COMPUTER PERFORMANCE INTERN – INTEL TECHNOLOgIES May 19’ –  Worked on Distributed Tensorflow Deep Learning Framework Ubers’ Horovod (on top of Open MPI / Intel MPI) to train Neural Network Model and segmenting Brain-Tumor in MRI images. Made it working on Docker.  **AIM**: To Reduce the training Time without compromising with the accuracy of the model and find the optimum parameter values for Model & multithreading parameters.  **RESULTS**: Training time for each epoch reduced from 3 hours to 125 seconds  Performed Intel OpenVINO Inference and Distributed Tensorflow inference. Optimized the model to better predictability and study convergence of model v/s multi-node Training. Implemented optimized CPU configurations using <https://www.intel.ai/optimizing-tensorflow-data-layer/#gs.dwysgl>  Results: Dice(parameter) increased by 33% after inference post processing  Built Tensorflow wheel using IntelMPI and Intel Compilers.  **CURRENTLY DEVELOPING INTEL EDGE INSIGHTS SOFTWARE, (Edge computing software)** |
| COMPUTER PROFICIENCY |  | * **Languages**: C, C++, Java, Python3 * **Technologies:** Tensorflow,Keras, OpenCV, OpenVINO,IntelMPI, OMPI, Horovod, Docker, ReactJS * **Operating:** Windows, Linux (RHEL , CentOS6/7)   **System & Distribution**   * **Database Systems:** MySQL, MongoDB |
| ACADEMIC PROJECTS |  | * Project**: MRI Images Unet-Model – [**Summer 19’**]**   + **Capabilities:** Capable of segmenting tumor in MRI images, trained on Multinode cluster. **Language**: Python **Tech Stack**: Tensorflow, Keras, Horovod, IntelMPI * Project : **Surreal model of UX and Articulation** [Summer 18’]   + Topic**: Sentiment Analysis** Capable of understanding semantics to a sentence (not a word). Designed on the theme “every set of conversation has answers to its why, what, when” **Theme**: Intel Distribution for Python- <Intel Data Acceleration Library and Intel Math Kernel Library> **Language**: Python **Framework**: Spyder (Anaconda) **Tech Stack**: Tensorflow, nltk, Stanfordnlp, tweepy, textblob.   Presented in Intel Python Hack Fury(1) Final   * Project: **Signature Recognition – [**December 18’**]**   + **Capabilities:** Capable of differentiating genuine and forged signatures with 90% accuracy **Language**: Python **Framework**: Spyder (Anaconda) **Tech Stack**: Tensorflow, Open CV, Scikit-Learn * Project: **Recommendation System – [**October 18’**]**   + **Capabilities:** Information filtering system as per the users’ preference **Language**: Python **Tech Stack**: Scipy, Matplotlib * Project: **Student-Teacher Portal – [**Summer 17’**]**   + (Interactive learning). **Language**- HTML, Java **Tool** :Eclipse **DBMS**: MySQL , **Technology**: JSP Under Oracle Workforce Development Program ( June-July’17) |
| ACHIEVEMENTS |  | 1. Participated in “Intel Python Hack Fury” .Co-Organized by Intel, Amazon Web Service and IISER-Pune.  I was in the final 8  Phase 1: I developed a “Surreal model of UX and Articulation”.  Phase 2: Successful Submission of Function Prototype and Idea Development.  Phase 3: Offline Presentation of the whole Idea, usage, technicality and implementation on the overall parameters of contest objectives.  This module is capable of extract semantics from a conversation and provide the answers. Extendible to sarcasm detection and reapplying the sarcasm to any statement.  Link: https://www.hackerearth.com/sprints/intel-pythonhackfury/  2. Participated in Axis Bank AI Challenge (co-organized by Amazon Web Services) (Team Challenge)  The Core of contest was “Signature Recognition”. Development of a technology with highest accuracy to differentiate genuine and forged signatures.  My team successfully reached the final round.  Link : <https://www.hackerearth.com/sprints/axis-hackathon/> |