Ankita Shreya

ankita9shreya@gmail.com | 91-8984607881 | Website

Education

International Institute of Information Technology — Bhubaneswar, Odisha(India)
Bachelor of Technology in Computer Science; CGPA: 7.65/10 — *May 2019-August 2015*

Relevant Coursework: Soft Computing, Pattern Recognition, Computer Graphics, Optimization Engineering, Data Mining, Theory of Computation, Relational Database Management System, Design and Analysis of Algorithm, Data Structure

Conducted research in the field: Computational Biology using Machine Learning

Work Experience and Internship

Quantiphi Analytics — Mumbai, India
Machine Learning Engineer Intern — *Jan 2019- June 2019*

- **The task was to identify frames having the overlaid text(dialogues, credits) from the active video and finding the corresponding textless frame if it existed after the end of active video**:
  - Consist of two modules the text detection module and the video similarity module
  - In the text detection module, the task was to identify text from video frames
  - In the video similarity module, the task was to identify textless frames for the texted frames
  - Built the end to end pipeline for execution of the entire project

Academic Projects

Cancer Classification Using improved Extreme Learning Machine — IIIT Bhubaneswar
Mentor: Prof. Swati Vipsita & Santosh Kumar Baliarsingh, IIIT Bhubaneswar — *Oct 2018- Jan 2019*

- **Objective**: Worked on implementation of a novel hybrid technique is proposed where Jaya optimization along with Adaptive simulated annealing is used for parameter optimization of Extreme Learning Machine(ELM) model. The efficiency of the model is verified against other existing techniques

Revisiting Radial Basis Function Networks(RBFN) for Cancer Classification — IIIT Bhubaneswar
Mentor: Prof. Swati Vipsita , IIIT Bhubaneswar — *Sep 2017- Feb 2018*

- **Objective**: Worked on efficiently designing the model for improving the learning of RBFN model parameters using Jaya optimization technique. This analysis brings other ways through which efficiency of this model can be increased on the task of cancer classification over the existing learning techniques

Analysing the RBFN model and its learning techniques — IIIT Bhubaneswar
Mentor: Prof. Swati Vipsita, IIIT Bhubaneswar — *Feb 2017- Aug 2017*

- **Objective**:
  - Worked on implementation and analysis of the traditional RBFN model and it's existing learning paradigms which include Three-step learning, Gradient Learning, and Genetic Algorithm. This gave an insight into the working of the model and further areas of improvement
  - On the Colon Tumor, dataset implemented PCA(principal component Analysis) and GA(Genetic Algorithm) for extracting relevant features and RBFN(Radial Basis Function Networks) is used as a classifier

Hybrid of PCA-GA for dimensionality reduction and feature selection of Probabilistic Neural Networks(PNN) — IIIT Bhubansewar
Mentor: Prof. Swati Vipsita, IIIT Bhubaneswar — *Aug 2016- Jan 2017*

- **Objective**: Implemented and analyzed a hybrid approach of PCA-GA, PCA(principal component Analysis) and GA(Genetic Algorithm) used for extracting relevant features and PNN(Probabilistic Neural Networks) is used as a classifier and further GA is implemented to get the optimized PNN architecture

Technical Skills

- **Languages**: Python, Bash, C++, SQL, Java, C — **Technologies**: GCP, AWS, GitHub, Latex
- **Libraries**: Numpy, Matplotlib, Pandas, Scikit-Learn, Keras, Jupyter, OpenCV

Leadership Skills

Treasure, ACM IIIT Bhubaneswar Student Chapter, 2017-18 : Managed all the funds and budget for the events that were organised by ACM
Member, Technical Society IIIT Bhubaneswar, 2016-17 : Encouraged students participation in college technical activities

Additional Experience & Achievements

- Presented *Cancer Classification using improved Extreme Learning Machine* over skype at **CIBCB** in July, 2019
- Selected for attending **ACM 2nd Europe Summer School** on Data Science
- Awarded **Certificate of Appreciation** by Delhi Public School, Rourkela for securing **CGPA-10** at AISSE in 2013
- Awarded **Certificate of Merit** by *Sahodya School Complex, Western Southern Odisha*, for securing **CGPA-10** in class X
- Secured **School Rank-8, City Rank-68** at **IMO**(International Mathematics Olympiad), 2010