SAMIKSHYA CHAND

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EDUCATION

Indian Institute of Technology (BHU), Varanasi   **July, 2015 – May, 2019**
- B. Tech. in Electronics Engineering (CGPA:8.14)

City International School, Pune (CBSE)
- All India Senior School Certificate Examination (Percentage: 93.00 %)   **2014**
- All India Secondary School Examination (CGPA: 10)   **2012**

TECHNICAL EXPERIENCE

Summer Internship at Amazon Development Center, India   **May - July, 2018**
- Developed backend Coral APIs for content management on Amazon based educational portal.
- Designed and implemented a Lambda JAVA package to receive streams from DynamoDB, process it and feed it to AWS Elasticsearch.
- Used Spring framework, Dependency Injection, Aspect Oriented Programming and wrote JUnit tests.

PROJECTS

Metaheuristic algorithms for optimization   **March - May, 2018**
- Department Project under Dr. M.Thottappan of the Electronics department, IIT BHU.
- Learning, implementing and comparing metaheuristic algorithms like Particle Swarm Optimization, Grey Wolf Optimization, etc., to optimize device parameters for maximizing the output power in MILO devices.

Hand Gesture Recognition using Image processing and Machine Learning   **February- April, 2017**
- Exploratory Project under Dr.Kishor Sarawadekar of the Electronics department, IIT BHU.
- Obtained wrist points and features and used them to classify gestures in images using Random Forest Algorithm. This was part of a larger project for aiding the visually impaired to operate computers.

Autonomous Image Processing Robot   **March, 2016**
- Constructed a robot that uses feed from overhead camera and applies image processing techniques to accomplish various tasks in Pixelate, Technex, Annual Technical Fest of IIT BHU.

Gesture Controlled Image editor   **February, 2016**
- Built hand gesture controlled Image editor (features like zoom, crop, cut, paste, rotate and save) on MATLAB, using image processing and machine learning (logistic regression).

ACHIEVEMENTS / EXTRA CURRICULAR ACTIVITIES

- **Kshitij, IIT Kharagpur- 2017** : Secured **2nd** position in 'Conquest' (an image processing event).
- **Coordinated Cryptography event** 'Spy Bits' with the participation of over 100 students, Udyam-2018.
- **Tutored a batch of 120 students** for Computer programming course (CSO-101), IIT BHU (Jan - May, 2018)
- Participated in **Microsoft Code.fun.do**, 2017 :
  Developed an app for citizen safety and ranked in the top **24 teams** of IIT BHU.
- **UDYAM 2016**, Technical fest Of Electronics Engineering society, IIT BHU:
    - Awarded as the **Best First Yearite of Electronics department** 2015-16.
    - Secured **2nd** position in 'Funckit' (Event to make a calculator using ICs).
    - Secured **3rd** position in 'Continuum' (Event based on Analog circuit design).
- Actively contributes to **Open Source** on Github.
- Secured **1st** position in Intra Freshers Girls Volleyball Tournament.
- Participated in Street Play Competition of Kashiyatra, Annual Cultural Fest of IIT BHU, 2016.

SKILLS AND INTERESTS

- **Languages:** C++, C, Python, SQL (basic), Java (basic)
- **Technologies:** Visual Studio, Git, MATLAB, AWS (DynamoDB, Elasticsearch, Lambda), Windows Azure
- **Operating Systems:** Linux kernel based (Ubuntu and OSX), Windows
- **Areas of Interest**: Data Structures, Algorithms, Machine Learning, Web Development, Image Processing