Prateek Sarangi

Near Kirba Chowk, Bshantkunj, Burla, Sambalpur, Orissa - 768017

+91 8114306491 | sarangiprateek80@gmail.com

SOCIAL PROFILES

https://www.linkedin.com/in/prateek-sarangi-23100a13b/

SKILLS

Programming Languages

C C++ Java Python

Javascript R HTML CSS

Databases

PostgreSQL MySQL

Tools

MS Word MS Excel MATLAB

NetBeans

Domain Skills

Machine learning Deep learning

Cloud computing Arduino

Raspberry Pi

Amazon web services(AWS)

Natural Language Processing

Serverless Computing

Operating System

Windows Linux

ACHIEVEMENTS

- Reached in **Top 10** teams in **InnoBuzz Hackathon** conducted by HackerEarth
- Received appreciation certificate for being **School Captain**
- Reached in **Odisha Zone Finals** and secured 66th rank in the region in 17th SOF International Maths Olympiad
- Secured **First** Position in Inter-School U-19 Cricket Tournament

SUMMARY

Self-motivated and enthusiastic **Computer Science Engineering Professional** currently pursuing B.Tech (2017-2021) from Veer Surendra Sai University of Technology, Burla; offering sound knowledge of Machine learning, Deep Learning, Cloud Computing, Database Autotuning and Serverless Computing. Possesses sound familiarity with MATLAB, Java, Python, R and C & C++ Programming. Have in-depth knowledge of coding of Embedded Systems and Raspberry Pi. An excellent communicator with good analytical skills with a zeal to excel in **Data Science** and **Machine Learning** domains.

PROFESSIONAL DETAILS

Research Intern   20 May'19 - 6 Jul'19

NIT Rourkela

- **Language Used:** Python
- Gained hands-on experience in **Video Synopsis Generation** and **Summarization** using deep Semantic features.
- The project is about generating text from the crime videos provided so that a summary report can be generated.

Research Intern   21 Jun'18 - 20 Jul'18

IIT Bhubaneswar

- **Language Used:** Python
- Gained hands-on experience in **Artificial Neural Network, Machine Learning and Direct modelling.**
- Designed and simulated XOR Gate using Artificial Neural Network
- Irish Flower Clustering using K-means clustering. The project is about unsupervised learning of the Irish flower dataset.

ACADEMIC DETAILS

B.Tech/B.E.

Computer Science & Engineering
Veer Surendra Sai University of
Technology | 2021
CGPA - 7.00/10.00

XII

Kendriya Vidyalaya, Bargarh | 2017
Percentage - 89.60%

X

Kendriya Vidyalaya, Bargarh | 2015
CGPA - 10.00/10.00

PROJECTS

Database Autotuning using Large Scale Machine Learning

- This project uses machine learning algorithms to generate a recommendation for DBA to get the best possible knob settings
- **URL**- https://github.com/prateeksarangi/ottertune

Pixelation

- Developed a maze solver robot which acts upon the instructions provided from the over-head camera and follows the shortest path from start to end
- **URL**- https://github.com/prateeksarangi/pixelation_NSSCKgp

Video Stabilizer

- The objective is to stabilize the image obtained from a camera mounted on a four-legged bot to help proper implementation of the line following
- **URL**- https://github.com/prateeksarangi/ImageStablizer

Video Summarization and Synopsis Generation

- This project aims at generating summary and synopsis of the crime video helping in criminal report writing
- **URL**- https://github.com/prateeksarangi/pVideo-Summarization-with-LSTM
- **URL**- https://github.com/prateeksarangi/vsum_dsf

Virtual Simulation of a Computer using Java

- Simulated a compiler independent code base to act like a computer using Java
- **URL**- https://github.com/prateeksarangi/Virtual_Box/setitngs

Holonomic Motion Planning using Encoder and LSA

- Motion planning of holonomic robot using reverse kinematics so as to follow the line provided and play the game. The same was applied in Robocon 2019 design of the final structure.
- **URL**- https://github.com/prateeksarangi/pRobocon_Codes

Robo Soccer

- Robo Soccer is a domain designed to advance robotics and AI research through friendly competition
- Small size league is one of the RoboCup league, focuses on intelligence multi-agent cooperation and control over a highly dynamic environment

CERTIFICATES

⭐ TensorFlow and Keras for Neural Network and Deep Learning

⭐ Data Scientist's Toolbox | Coursera

⭐ R Programming for Data science | Coursera

⭐ Javascript Masterclass

⭐ Embedded Systems Programming on ARM Cortex-M3/M4 Processor

⭐ Crash Course in Deep Learning with Google Tensorflow | Python

⭐ Learn Ethical Hacking from Scratch

⭐ AMCAT Certified Data Processing Specialist

⭐ AMCAT Certified Customer Service Specialist

WORKSHOPS

- **Cloud Computing with BigData and Hadoop** in IIT Delhi
- **IoT with Arduino** in IIT Delhi

EXTRAMURAL ENGAGEMENTS

- Participated in **21st National Children Science Congress** Intra-Regional level on the topic- Energy: Explore, Harness and conserve
- Participated in **22nd National Children Science Congress** Intra-Regional level on the topic- Understanding water and climate
- Wrote Poems on online platforms (link:- https://joker11299.blogspot.com/)

REFERENCES

Dr. Manas Ranjan Kabat
Associate Professor and HOD
Veer Surendra Sai University of
Technology, Burla
hod_cse@vssut.ac.in
Head of Department

Mr. Vikash Sharma
Assistant Professor
Birla Institute of Technology, Mesra
vikash.sharma@bitmesra.com
Mentor - Project

Mr Khitish Behera
Project Manager
Capgemini
khitish.behera@capgemini.com
Mentor - Project

PERSONALITY TRAITS

- Strong Communication Skills
- Leadership
- Teamwork
- Analytical Skills
- Problem Solving Skills
- Decision Making Skills