Sudip Kumar Sahu

Portfolio: https://sudipsahu17.github.io/sudipsahu.portfolio.github.io/

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CAREER OBJECTIVE

Giving my very best performance and carrying out the job with full dedication & responsibly, which helps to achieve our common goals and perspective.

EDUCATION

Class-X (Board: WBBSE) — 2012

Jhalda Satybhama Vidyapith

73% (STANDARD MARKS) 72.75% (ACTUAL MARKS)

Class-XII (Board: WBCHSE) — 2014

Jhalda Satyabhama Vidyapith

82% (STANDARD MARKS) 82% (ACTUAL MARKS)

Bachelor of Technology 2014 — 2018

Computer Science and Engineering

Meghnad Saha Institute of Technology (MAKAUT University)

8.53 (DGPA up to 8th Semester)

Post Graduation Diploma 2020 — 2021

Artificial Intelligence and Machine Learning

IIIT Bangalore (Online)

3.41 (On scale of 4)

COMPUTER SKILLS

Programming Languages: Python, C, Shell Scripting, Java
Subjects of Interest:

1. Data Structure and Algorithms
2. Machine Learning Concepts:
   - Exploratory Data Analysis (EDA)
   - Linear & Logistic Regression
   - Decision Tree & Random Forest
   - Neural Network (Deep Learning - CNN & RNN)

Web Technologies:

- **Practical knowledge:** Django Rest Framwork, Flask, JavaScript(Basics), Spring Boot Framework, MVC & MVT Architecture, SQL & NoSQL

Others:

- **Familiar with:** Linux (OS), CVS & GIT (Version Control System), Jenkins (CI/CD Tool)

IT EXPERIENCE

Tata Consultancy Services (TCS) — 12th September, 2018 — Present

- **Designation:** IT Analyst
- **Job Description:** From past 3 years, I am working as Python developer in TCS. Worked in 3 different projects - Most of the time, I have worked on backend side to develop REST micro-services.
- **Exp. Years:** 3+ years
- **Projects:**

1. **Chip Optimization (Chip-Opt):**
   - **Description:** Aim of this project is to optimize the number of semiconductor chips, produced from a single silicon wafer. Here, We have developed an web application to achieve it.
   - **Client:** Texas Instruments Inc.
   - **Technology:** Java, Spring Boot Framework, MongoDB, Shell Scripting, Git
     Platform: Windows and Linux(RHEL)
   - **Duration:** 5 Months

2. **Factory Automation Management Services (FAMS):**
   - **Description:** Here, We are responsible for development and enhancement of automated application, which will automate the process the semiconductor manufacturing, from raw silicon wafer. We have developed applications, which are directly connected to the equipments and database, so that equipment engineers don't need to provide the complex params as input to the tool. It will easy their job and system will be less error probne.
   - **Client:** Texas Instruments Inc.
   - **Technology:** Python, Flask, TkInter, Shell Scripting, CVS, Jenkins(Frontend)
   - **Platform:** Windows and Linux(Solaris & RHEL)
   - **Duration:** 2 years

3. **GPU Virtualization:**
   - **Description:** This project is all about managing the high computing cluster where users can run high computing programmes or jobs (like - AI/ML model development, Batch jobs etc.), by reserving resources (like - CPUs, GPUs, Memory etc) according to their requirement. We are working on creating a web application to fulfill the overall functionalities.
   - **Client:** Advanced Micro Devices Inc. (AMD)
   - **Technology:** Python, Django Rest Framework, PostgreSQL, Slurm, Docker, Shell Scripting, Git/Github
   - **Platform:** Windows and Linux(Ubuntu & Debian)
   - **Duration:** 1 year (currently working)

INDUSTRIAL TRAINING

TCS Initial Learning Program (ILP):

- **Duration:** 45 working days (12th September 2018 - 2nd November 2018)
- **ILP** is a mandatory training period for each fresher. During ILP, I have been trained on **.NET framework.** I have worked on layering architecture (using **ADO.NET**) and **MVC** architecture. During this training period, I have also learned about the **Agile** methodology of **SDLC** and I have done a small project using the agile method.

ACADEMIC PROJECT WROKS

Online Auction System

Basic FIFA player auction site

- **Description:**
  - This is a very basic E-Auction website for the football players, where we can see the profile of each player's profile according to FIFA17 database, with a base price tag as it happens in any gaming bidding system like IPL Auction. Each participant has an initial budget to buy players and in the end, they can download their team list within their system, as well as they can see what other participants are buying.
- **Technology Used:**
  - Sprint Boot Framework
  - Java APIs
  - Eclipse Framework
  - MongoDB as Database
  - Javascript

Hand Gesture Recognition Model

Basic ML model to recognize hand gestures

- **Description:**
  - A deep learning model to classify hand gestures into 5 classes. This gestures are used for controlling a Smart TV. Overall Architecture: "Transfer Learning + CNN + RNN". For project deatils - Hand Gesture Recognition Github
- **Technology Used:**
  - Python Libraries - Tensorflow, Keras and OpenCV
  - Pre-trained CNN Model on ImageNet - VGG16 and VGG19
  - RNN Architecture - GRU
  - Other Python Packages - Numpy, Skimage etc.

ACHEIVEMENTS

- Successfully passed Round-I in CodeVita Season IV(National Coding Contest, organized by TCS)
- 1st prize in Coding Contest in Paridhi 2017 (Inter-college Tech-Fest of Meghnad Saha Institute of Technology)
- TCS KUDOS Award - For the best performance in the batch during TCS ILP (2018)
- TCS On the Spot Award - For preforming well on account level activity (2019)
- Best performer of the current project in TCS (Received best ratings for 3 consecutive years)
- Learning Achievement Award - For my dedication and keen interest towards continuous learning(2021)
- Service and Commitment Awards - For completing successful 3 years of service in TCS (2021)

CERTIFICATIONS

- C & Data Structure Certification, certified by IIT Madras (NPTEL)
- Python & Data Structure Certification, certified by IIT Madras (NPTEL)

EXTRA CURRICULAR ACTIVITIES

- During college, I was a member of ACM Student Chapter of our college
- Worked for Rotaract Club of our college to help needy people
- Participated in Infosys Campus connect Skill Development Program 2017
- Currently, I am the spoke-person for my project account in TCS

INTER PERSONAL SKILLS

- Learning new things & implementing those in an efficient way
- Confident & Determined
- Ability to cope up with different situations
- Ability to quickly build up a good relationship & set up trust

INTERESTS

- Most of the time I like to do Coding, I always like to take part in online/ offline coding contests
- Learning new Optimization Techniques & Algorithms
- Currently learning data science related concepts and algorithms(Regression, Classification, Deep Learning, NLP, Neural Network).

PERSONAL DETAILS

- **Date of Birth:** 27th January 1996
- **Father's Name:** Dilip Sahu
- **Mother's Name:** Anuradha Sahu
- **Nationality:** Indian
- **Permanent Address:** School More Masina, Jhalda Block-1, Jhalda, Purulia - 723202
- **Hobby:** Playing Video Games (FIFA, Battle Royale Games)