Abhirup Deb 

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 **Sagarbhanga Colony, Durgapur**

Enthusiastic and passionate Software Developer committed upon contributing towards collaborative success through hard-work, perseverance, and attention to detail. Machine Learning Developer obsessed with Deep Neural Networks and CNNs with. Thinks that TensorFlow, Numpy and Keras are great. Possesses a comprehensive understanding of Data structures and Algorithms, and Web Development with MongoDB, Express, React and NodeJS. Motivated to learn, grow and excel in the IT Industry.

**P R O F E S S I O N A L E X P E R I E N C E**

# Suven Consultants and Technology Pvt. Ltd. - (Java Coding Internship)

Duration**:** 4 Weeks(DEC 2020 - JAN 2021)

Position: Java Developer Intern

Projects: The following projects were implemented using Core-Java during this internship:

* Home Inventory Management System
* Consumer Loan Assistant Project

Technologies used: Core Java.

* Transtutors.com – Subject Matter Expert (Computer Science)

Duration**:** JAN 2020 - Present

Position: Subject Matter Expert (Computer Science)

Description: Providing solutions to the questions asked on a particular domain. This is a Freelancing job, where one

is paid on a monthly basis, depending upon the number of questions answered during the month.

**P R O J E C T S**

# YelpCamp-Campgrounds Website (A Full-Stack Web Development Project)

Duration**:** 8 weeks (MAY-JUL 2020)

Technologies used: MongoDB, Express, React, NodeJs, React Router, Mongoose, Javascript, Jquery

Description: A Full-Stack dynamic website built with the help of MERN stack. Functions as a full-fledged

websites facilitating the Creation(Uploading), Updating, Modification of New or Pre-existing Campgrounds with Sign-up and log-in facilities. Provides User-Association to the uploaded Campgrounds alongside the feature to add Comments and provide their feedback on them.

Project URL: https://github.com/abhirupdeb/YelpCamp-Project.git

# TensorFlow: Image Classification using Deep Neural Networks (Image Classification with Python)

Duration**:** 2 weeks (DEC-JAN 2018)

Technologies used: Python, TensorFlow, Numpy, Matplotlib, Fashion-MNIST dataset

Description: A full-fledged CNN Model using TensorFlow for the classification of images. This Project has been built using Python-TensorFlow, Numpy, Matplotlib and the Fashion-MNIST dataset for Image Classification using Convolutional Neural Networks. The application shows a high train and test-set accuracy in classifying the images and can be extended for other datasets too.

Project URL: https://github.com/abhirupdeb/TensorFlow-Image-Classification-with-Fashion-MNIST-dataset.git

# Face Recognition System : Image Recognition with OpenCV

Duration: 1 week (DEC 2020-JAN 2021)

Technologies used: Python, OpenCV, HAAR\_CASCADE

Description: This is a Python project with OpenCV and the HAAR\_CASCADE classifier, used to detect the presence of Faces in an image and recognize them. It can be utilized to analyze and detect the number of faces in an image via the Cascade Classifier and construct a rectangular boundary for the detected face. The application has a pretty high accuracy for detecting the presence of faces in an image and can be utilized for further Image Processing Applications.

Project URL: https://github.com/abhirupdeb/KNOW-THE-FACES.git

# Customer Loan Assistant Project

Duration: 1 week (DEC 2020-JAN 2021)

Technologies used: Core Java

Description: This has project has been made using core java. This Project presents a complete solution towards customers assisting them in Loan Management.

Project URL: https://github.com/abhirupdeb/Loan-Assistant.git

# Home Inventory Management System

Duration: 1 week (DEC 2020-JAN 2021)

Technologies used: Core Java

Description: This Project has been built using Core Java. This project provides a complete interface based solution to the problems and the nuances of Home Inventory Management utilizing the Java Programming Language.

Project URL: https://github.com/abhirupdeb/Home-Inventory-Management.git

**P U B L I C A T I O N S**

* A New Modified Red Deer Algorithm for Multi-level Image Thresholding

*Institute of Electrical and Electronics Engineers (IEEE)*

Authors: Abhirup Deb, Soumyaratna Debnath, Dr.Sourav De, Dr.Sandip Dey.

Description: Meta-heuristics are stochastic algorithms, designed to discover optimal/near-optimal solutions of optimization problems in a comparatively minimum timescale. In this paper, a revised and improved version of the popular meta-heuristic algorithm, that is, the Red Deer Algorithm is presented.

Publication URL: https://ieeexplore.ieee.org/document/9296166

**C E R T I F I C A T I O N S A N D S P E C I A L I Z A T I O N S**

* **ALGORITHMS SPECIALIZATION (08/2020 – 11/2020)**

*Coursera – Stanford Online*

Certificate URL: https://coursera.org/share/24017464911839c537ca7418001865f4

* **MACHINE LEARNING (06/2020 – 08/2020)**

*Coursera – Stanford Online*

Certificate URL: https://coursera.org/share/087e65141d2f5ee4d9fc1ef245ccf331

* **BECOME A SOFTWARE DEVELOPER (12/2020)**

*LinkedIn Learning*

Certificate URL: https://github.com/abhirupdeb/Become-A-Software-Developer--LinkedIn-Learning.git

* **NATURAL LANGUAGE PROCESSING (10/2020 – 11/2020)**

*Coursera – Higher School Of Economics National Research University*

Certificate URL: https://coursera.org/share/4525e595184e87834db35dc41618e972

* **Ethical Hacking (6/2020 – 8/2020)**

*Internshala*

Certificate URL: https://github.com/abhirupdeb/CertificationsandAchievements/blob/main/Ethical%20Hacking%20Training%20-%20Certificate%20of%20Completion.pdf

* **Ethics in Engineering Practice (2/2019 – 4/2019)**

*NPTEL Online Certification*

Certificate URL:

https://github.com/abhirupdeb/CertificationsandAchievements/blob/main/Ethics%20in%20Engineering%20Practice.jpg

* **Deep Learning Specialization (11/2020 – Ongoing)**

*Coursera – DEEPLEARNING.AI*

Certificate URL: https://github.com/abhirupdeb/Deep-Learning-Specialization.git

* **Introduction to Cloud Computing (8/2020 – 9/2020)**

*Coursera – IBM*

Certificate URL: https://coursera.org/share/89f070b55620784c0259d91d2a72cd5f

**C O M P U T E R K N O W L E D G E A N D S K I L L S E T**

* GENERAL PURPOSE PROGRAMMING (**JAVA, C, Python**)
* SERVER-SIDE SCRIPTING (**PHP**)
* FRONT END TECHNOLOGIES (**Node JS, JavaScript, HTML, CSS**)
* FRONT END LIBRARIES (**Bootstrap, jQuery, AJAX**)
* MACHINE LEARNING (**TensorFlow, Keras, Numpy, Pandas**)
* IMAGE PROCESSING (**Python-OpenCV, Pillow)**
* RELATIONAL DBMS (**MySQL**)
* GUI PROGRAMMING(**TKinter, Java Swing, Java AWT, Visual Basic)**
* CLOUD COMPUTING(**IBM Watson)**
* WEB SECURITY AND PENETRATION TESTING (**OWASP ZAP, BurpSuite, SQLMap ,NMap , Nikto)**
* LIBRARIES (**Chatterbot, MatplotLib, Numpy, h5py, SciPy**)
* KNOWLEDGE IN OTHER AREAS **(Flask, React, Java Swing, Java AWT, Visual Basic, GNU Octave)**

**E D U C A T I O N A L P R O F I L E**

|  |  |  |  |
| --- | --- | --- | --- |
| **Qualification** | **Institution/ Place** | **University/ Board** | **Marks** |
| B. Tech (CSE) (2018-2022) | Cooch Behar Government Engineering College, West Bengal | Maulana Abul Kalam Azad University of Technology | **9.72 YGPA**  **(2nd Year)** |
| Higher Secondary (+2) | M.A.M.C Township Modern High School, Durgapur | West Bengal Board of Secondary Education (WBBSE) | **92%** |
| Secondary (10th) | M.A.M.C Township Modern High School, Durgapur | West Bengal Council of Higher Secondary Education (WBCHSE) | **90%** |

**P O S I T I O N S O F R E S P O N S I B I L I T Y**

* + Founding Member of Creative Pens, our College Literary Club, that provides a medium of expression to the aspiring writers and literature-enthusiasts of our college.
  + Founding Member of Tech-O-Nicks, the Technical club of our College.
  + Campus Ambassador for MyWbut.com (01/2021 – Current)
  + Member and Representative of Ant-Ragging Committee, Cooch Behar Government Engineering College.

**A C A D E M I C P R O J E C T S**

* Exhibited a project on Arduino Powered – ***MOTION CONTROLLED ROBO-CAR* (*ACCELEROMETER AND SPEECH CONTROLLED*)** at the Tech fest of Cooch Behar Government Engineering College
* Presented an MSME Project on ***LIBRARY AUTOMATION SYSTEM (IOT, Artificial Intelligence, Image Recognition and OCR).***

**A D D I T I O N A L D E T A I L S**

* NPTEL Online Certification Silver-Elite Medal Winner in “***Ethics in Engineering Practice***”.
* Secured the 65th Position in **BLITZKREIG (Online Aptitude Test Contest)** at **TELOS 2019**, the **Annual TechFest of MYWBUT.COM**
* Participated in a 5-day seminar on ***“Selected Topics in Cutting-Edge Engineering Applications”***

**H O B B I E S A N D E X T R A – C U R R I C U L A R S**

* Musician – Vocals and Instruments (Keyboard, Harmonium, Guitar)
* Writing Stories and Poems
* Novels and Fiction – Science Fiction, Detective Fiction, Thrillers and Classics.