

MILON KANTI DAS
EMBEDDED ENGINEER
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SUMMARY

I am a highly motivated individual who is constantly seeking for new challenges and new roles , my hunger for knowledge makes me fit into variety of roles and positions.

PERSONAL

Date of birth : 14th November 2000
Parents : Father: Dilip Kumar Das
Mother: Mitali Das

EDUCATION

BACHELORS IN AEROSPACE ENGINEERING • JULY 2018-22 • CHANDIGARH UNIVERSITY CGPA-
6.01

ICSE/ISCE SCHOOL EDUCATION – 2003 - 2018 – HOLY ANGEL'S SENIOR SECONDARY SCHOOL
Percentage – 68.76

PROJECT UNDERTAKEN

Verzeo Edutech Project for CNN and AI – performed CNN (Convolution Neural Network) based on CIFAR dataset .

Forge Assignment by Goldman Sachs – I have undertaken the assignment of cracking hashed passwords via Hashcat . The certification was provided to me by Goldman Sachs Forge team.

Dautya Aerospace – I took an internship as well as training at Dautya Aerospace for aerospace and I worked on various 3D printing models , composites and Microcontrollers such as Arduino Uno R3 and worked with MPU 6050 , Infrared and Ultrasonic sensors (December 2021 – April 2022)

PROFESSIONAL SKILLS

Equipped with programming skills such as Python, C++ , MATLAB , SQL, ROS1 & ROS2, SAS, chat GPT, GIT
Have worked on Unreal Engine , AirSim , Gazebo simulations for analyzing drone performance and creating scenarios
Furthermore worked on various segmentation models (Semantic Segmentation models) such as ESPnet and jetson inference for designing of vision based segmentation models for the UAVs .
Used Computer Vision tools such as OpenCv , tensorflow , tensorRT for image manipulation and extraction of data from the image. Have a strong understanding of Reinforcement Learning , Back-Propogation in machine learning and imitation learning models for designing of autonomous path following algorithm of UAV.

Have worked on Pandas , Numpy , Scipy , Matplotlib , seaborn and keras for data analysis , data interpretation, data visualization and for creaing dataframes and datasets for data manipulation and analysis.

Have used ANN and CNN for deploying image based neural structure for understanding and analysis of real time images and videos streams .

Worked on various linux distros such as Ubuntu , Kali Offensive , Tails

Worked on 3D printing , composites .

EXPERIENCE

SOFTWARE ENGINEER • COSTA CLOUD • SEP 2022 • JUNE 2023

Worked on development of Autonomous UAV algorithms for path following and image based visual perception ,which helps the UAV to gather data based on images rather than using sensors and thus reducing the computation cost and furthermore reducing the weight of the UAV and thus increasing it's maneuverability.

PROJECT ASSOCIATE • CSIR-CEERI• JUN 2023 May 2024

Worked on development of the image based PID controller and image based movement using OpenCv and segmentation models for segmenting the useful part of the image and masking out the rest of the image in order to reduce the noise in the image and thus based on the output image create algorithms for creation of PID controller and maneuver.

environment and working on computer vision and segmentation based models to create and design image base maneuver algorithms.