NIMISH ADHIKARI

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CAREER OBJECTIVE

As a developer with a diverse range of extracurricular skills, my career objective is to leverage my technical expertise and creativity to develop innovative solutions that positively impact end-users. Additionally, I seek to use my extracurricular skills, such as communication, teamwork, and problem-solving, to collaborate effectively with cross-functional teams and deliver projects that exceed expectations.

EDUCATIONAL QUALIFICATION

Bachelors of Technology - Electronics and Communication
Birla Institute of Applied Sciences affiliated to Uttrakhand Technical University
Grade : **75.55**% [2020-2024]

Senior Secondary School
Sainik School Ghorakhal - Central Board of Secondary Education with PCMB
Grade : **80.40**% [2018-2020]

High School
Sainik School Ghorakhal - Central Board of Secondary Education
Grade : **94.40**% [2013-2018]

CO-CURRICULAR ACTIVITIES

- Secured 3rd Position in High School affiliated with CBSE in a batch of 100 students.
- Cleared **All India Sainik Schools Entrance Examination** with AIR rank in top 10 amongst more than 60000 participating students.

POSITION OF RESPONSIBILTY

- Appointed as **Dance Co-Ordinator** in batch of 140 students. [April 2023-Present]
- Authorized as a **Co-Ordinator** for Fine-Arts Society event. Responsible for organizing and managing Aipan making Competition. [September 2022]

PROJECTS*

- **Automatic Grass-Cutting Robot using Arduino:** An automatic grass-cutting mower that works on sensors, motors, and Arduino programming.
- **AI Recommendation System**: AI-based recommendation system to parse the resume and fetch important skills. Job recommendation according to the parsed skills. [September 2023]
- **Credit Card Fraud Detection**: Python-based fraud detection project. Numpy, Scikit- learn and Matplotlib were used along with Python for development. [April 2023]

INTERNSHIP

- **System Maintenance Team Intern** at **VRAJ Polymers:** **[July 2023-August 2023]**
  Worked with the team to maintain and optimize the workflow and manage the workforce.

CERTIFICATES

- Participated in **Unnat Bharat Abhiyan** Drive of door-to-door survey and analysis organized by AICTE.
- Secured **B Certificate** in National Cadet Corps in Sainik School Ghorakhal.
- **NPTEL** Certification in 'The Joy of Computing using Python'.
- freeCodeCamp certification in Machine Learning with Python.
- freeCodeCamp certification in JavaScript Algorithms and Data Structures.

EXTRA- CURRICULAR

- Participated in **3D-I Imagine** by 3DI School New Zealand amongst a batch of 100 students.
- Participated in Special Workshop on Creative Activities by **CCRT**.
- Participated in 30 days production oriented theater workshop by **NSD**.
- Won **Western Dance** organized at **Uttrakhand Technical University** amongst 20 participating colleges.

- *Projects explained on next page.

PROJECT SUMMARY

- **Automatic Grass-cutting Robot Using Arduino:** The project's objective is to design and develop a grass cutter with induction of solar panels to avoid drawbacks faced while using traditional cutters. The project is based on the **photovoltaic** effect that helps to convert light energy into electricity. The major parts that were effectively employed in the design and fabrication of the solar-powered grass cutter are the **Solar Panel, Motor, Display, Motor drivers, Ultra-sonic sensors, Battery, IR sensor, Arduino board, 1-channel relay, and 4-channel relay**. The Grass-cutter uses sensors and algorithms to navigate and mow the lawn and is programmed to cut the grass. The grass cutter and vehicle motors are interfaced with an ultrasonic sensor for object detection and a microcontroller that moves the vehicle in the forward direction. As the ultrasonic sensor detects the obstacle, the microcontroller stops the grass cutter to avoid damage to the obstacle. The microcontroller further moves the robot if no obstacle is detected.

- **AI Job Recommendation System:** Revolutionizing job applications with precision and efficiency, the AI job recommender powered by TensorFlow and React JS offers a seamless user experience with accurate role predictions.

**Features*:*

- ***Resume Parsing:*** TensorFlow and spaCy for precise skill extraction.
- ***ML Skill Analysis:*** TensorFlow analyzes and refines candidates' skills.
- ***Job Prediction:*** Recommends roles based on analyzed skills.
- ***UI:*** Responsive React JS Frontend.

Tech Stack:

- ***Frontend:*** React JS
- ***Backend***: Django
- ***AI/ML***: TensorFlow, spaCy

Benefits:

- **Efficiency:** Swift job matching with accurate skill analysis.
- **Precision:** Advanced ML ensures accurate predictions.
- **User-Friendly:** Responsive UI for seamless interaction.
- **Adaptability:** Customization and feedback options.

- **Credit Card Fraud Detection Using Python:** This project focuses on detecting fraudulent transactions from a given data set using various Python libraries and machine learning algorithms. The main steps included in this fraud detection are:
- Obtaining Credit Card Fraud Detection Dataset from Kaggle.
- Importing necessary libraries like numpy, pandas, matplotlib, sci-kit learn.
- Exploring and visualizing data to know the relative proportion of fraud and legitimate transactions.
- Plotting the variables using subplots.
- Building and training the model by splitting the data into training and testing sets.
- Using Logistic Regression Algorithm to classify the fraud and legitimate transactions using the bit manipulation method.

- **Date** : 22-Dec-2023

DECLARATION:

I hereby declare that the above mentioned particulars are true to the best of my knowledge and belief