ARJUN
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EDUCATION

DAV Institute of Engineering and Technology　　　　　　　**jul 2020 – Present**
B.tech(IT) - CGPA - 7.1 till 7 sem　　　　　　　　　　　　　　*Jalandhar,India*

Auckland Public School　　　　　　　　　　　　**March 2018 – March 2019**
12th Percentage - 77%　　　　　　　　　　　　　　　　　*shahpurkandi,India*

Government Model High School　　　　　　　　　**March 2016 – March 2017**
10th CGPA - 9.3　　　　　　　　　　　　　　　　　　　　*jugial, India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computer Network
- Database Management System (DBMS)
- Artificial Intelligence
- OOPS Concept
- Web Development
- Big data
- Machine Learning
- Cloud Computing
- Software Project Management
- Big data
- Data Warehouse and Mining

PROJECTS

Implementation and comparison of machine learning approaches for image colourisation ⌷

December 2023

- Technical Stack: TensorFlow, PyTorch, Python, CNN, GAN
- About project:
  * Implemented and compared various machine learning approaches for image colorization.
  * Explored the use of Convolutional Neural Networks (CNNs) and Generative Adversarial Networks (GANs).
  * Utilized TensorFlow and PyTorch for model development and training.

Hand Gesture Recognition ⌷ |

september 2023

- About project:
  - Developed a hand gesture recognition system using linear regression.
  - Utilized linear regression to analyze and classify hand gestures based on extracted features.
  - Preprocessed the input data to enhance feature extraction and improve model accuracy.
  - Evaluated the performance of the linear regression model using metrics such as mean squared error.

Restaurant Management using Tkinter ⌷ | Language: Core Python　　**June 2022**

- About Project:
  * Developed a restaurant management system using Tkinter GUI toolkit in Python.
  * Implemented features for managing menu items, orders, customer information, and billing.
  * Utilized core Python for logic implementation and Tkinter for building the graphical user interface.
  * Provided functionalities such as adding, editing, and deleting menu items, processing orders, and generating bills.
  * Integrated error handling and validation to ensure data integrity and system reliability.

INTERNSHIP

Solitaire Infosys ↗   **January 2024 – Present**
Intern   *Mohali, India*
- ∗ **Role:** Full-Stack MERN Development Intern
- ∗ **Responsibilities:**
    - · Contributed to the development of web applications using the MERN (MongoDB, Express.js, React.js, Node.js) stack.
    - · Assisted in designing and implementing RESTful APIs for backend services using Node.js and Express.js.
    - · Developed responsive and interactive user interfaces using React.js for frontend components.
    - · Collaborated with the team to integrate frontend and backend components, ensuring seamless functionality.
    - · Participated in database design and implementation using MongoDB, including schema design and data modeling.
    - · Conducted testing and debugging of applications to identify and resolve issues promptly.
    - · Researched and experimented with new technologies to enhance project capabilities and efficiency.

Solitaire Infosys ↗   **July 2022 – September 2022**
Intern   *Mohali, India*
- ∗ **Role:** Machine Learning Intern using Python
- ∗ **Responsibilities:**
    - · Contributed to machine learning projects using Python, focusing on algorithms and techniques such as regression, classification, and clustering.
    - · Assisted in data preprocessing, feature engineering, and model development using libraries such as NumPy, Pandas, and Scikit-learn.
    - · Participated in the evaluation and fine-tuning of machine learning models to improve accuracy and performance.
    - · Conducted research on various machine learning methods and technologies to identify best practices and innovative solutions.
    - · Collaborated with the team to analyze and interpret machine learning results, providing insights and recommendations for further enhancements.
    - · Documented project progress, methodologies, and findings for knowledge sharing and future reference.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript

Frontend Technologies: React, Bootstrap, Tkinter

Backend Technologies: Express.js, Node.js

Databases: MongoDB

Machine Learning Frameworks: TensorFlow

Machine Learning Concepts: GAN (Generative Adversarial Networks), CNN (Convolutional Neural Networks)

Libraries: NumPy

IDEs/Tools: VS Code, PyCharm, GitHub

CERTIFICATIONS

- Machine Learning with Python - 92%, 6 weeks internship
- Core Python - 95%, 2-month training
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C++ - 80%, 3-month training