

Inderpreet Singh

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EDUCATION

Panjab University, Chandigarh, India

Chandigarh College of Engineering & Technology, GPA: 8.8

Candidate for a Bachelor of Science in Computer Science

July 2018 - present

Expected graduation: May 2022

Related Courses: Data Structures, Algorithms, Artificial Intelligence, Deep Learning

S.G.G.S Sector-34, Chandigarh, India

Higher Secondary Education (Intermediate) 93.6%

March 2018

Saupin's School, Sector-32, Chandigarh, India

Secondary Education (Metric) CGPA: 10.0/10.0

March 2016

TECHNICAL KNOWLEDGE

Programming Languages: C, C++, Python, PHP, JavaScript, MySQL, CSS(Bootstrap), NodeJs

Software: Git, Visual Studio, starUML, XAMPP, MS-Office

Python Libraries: Keras, Tensorflow, Pandas, NumPy, Tkinter, Sqlite3, matplotlib

TRAININGS

- Neural Networks And Deep Learning – deeplearning.ai
- Machine Learning for All – University of London
- Introduction to Data Science – University of Michigan
- Python for Everybody Specialization – University of Michigan
- Building Web Applications in PHP – University of Michigan
- Introduction to Git/GitHub – Google
- CAO – Bharat Acharya Education
- Data Structures – Compuhelp
- Web Development - Compuhelp

ACADEMIC PROJECTS

TRAFFIC SIGNS CLASSIFICATION

- Classified the **43 Traffic Signs** using the Keras API And Tensorflow 2.0.
- Used **2D Convolutions** for sign image classifications.
- Data consisted of **32X32** Imaged of **RGB Color** scheme.
- Achieved **92 % Accuracy** on the validation data set

TOXIC TEXT RECOGNITION

- Classified many **Wikipedia comments** as Toxic or Not. Used the Keras API for Sequential Model.
- Dataset was taken from Toxic Comment Classification Challenge on Kaggle.
- Used **1D convolutions** as Feature Extractors for Text. Achieved a validation **Accuracy of 95%**.

FACIAL EXPRESSION RECOGNITION

- Classified expression into **Seven categories**. Used the Kera API for model development.
- Dataset taken from the **Kaggle Competition**.
- Used **2D Convolutions** for Image Classification. Achieved a validation Accuracy of 64%.

ADVANCED ASSIGNMENT SYSTEM

- Allows students to login through **face and blink recognition** to ensure real-time liveliness detection approach against photograph spoofing.
- Designed a **Timer Based Assignment System**. Students will also have a option of **Text-to-Speech** for writing their assignments. Thus, will help students to write the assignment easily
- **Natural Language Processing based Plagiarism Checker** for the teachers. It will help teachers to generate a **Plagiarism Reports**

INTELLIGENT SYSTEM TO DETECT CAT FROM A GIVEN IMAGE

- Final Project of the Deep Learning Course by Andrew Ng.
- Used Vectorizing and Broadcasting Techniques. This made the system very efficient
- Achieved the average **training accuracy of 93.825% and average validation accuracy of 82.99%**.

PROFIT CALCULATION FOR A BIKE COMPANY

- **Linear Regression Based model.**
- Used Population of the city as the Parameter for the prediction model
- Achieved the **average of 82% Accuracy.**

COLLEGE ALUMINI PORTAL - PHP BASED WEB APPLICATION

- A proposed solution for the **SIH Problem Statement of Colleges under Goa Govt 2020.**
- It provides a medium for Authenticated alumni to connect with current sophomores of their college.
- PHP was used as Backend Language. Database was SQL. **SHA-512 used for the Data Encryption.**

WORK EXPERIENCE

- BETA - **Microsoft Learn Student Ambassador**
- Official Member at **Tech Phantoms**
- Organized various technical workshops as Executive Member at **ACM CCET**
- Organized various placement drives as Executive Member at **Training and Placement Cell**
- Executive Member of **Website Team CCET**

ACHIEVEMENTS

- Conducted a Webinar on “[INTRODUCTION TO MACHINE LEARNING](#)”
- Hackerrank 5 Star – Python, C++, Data Structures
- Hackerrank Certification – Python, Problem Solving
- Hackerrank Certification (Performance Based) – C (Basic), C (Intermediate)
- Successfully Completed Hacktober Fest Competition - 2019
- Successfully Completed 3 Levels of Google Foobar Challenge.
- Selected in top 15 Teams in Thapar University Hackathon – HackOWasp
- Successfully Participated in SIH Competition