Inderpreet Singh

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EDUCATION

Panjab University, Chandigarh, India
Chandigarh College of Engineering & Technology, *GPA: 8.8* July 2018 - present
Candidate for a Bachelor of Science in Computer Science 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% March 2018

Saupin's School, Sector-32, Chandigarh, India
Secondary Education (Metric) CGPA: 10.0/10.0 March 2018

TECHNICAL KNOWLEDGE

Languages:	C, C++, Python, PHP, JavaScript, MySQL, Javascript, 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
- 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 recognitio**n 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

- ALPHA - 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

- Hackerrank 5 Star – Python, C++, Data Structures
- Hackerrank Certification – Python, Problem Solving
- 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