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Ujjwal Chadha

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# B.Tech CSE graduate skilled in C++, Python, Machine Learning, and NLP. Experienced in AI-powered automation, Deep Learning, and scalable system design. Passionate about real-time applications, research-driven solutions, and AI innovation.

# EDUCATION

## Bachelor of Engineering – CGPA: 8.0

## 10th – 93%

**Delhi Public School • Dehradun, Uttarakhand • 2019**

**Computer science and engineering • Chandigarh University • Mohali, Punjab • 2025**

* **Latest semester (7th): 8.73**

## 12th – 88%

## Children’s Academy • Dehradun, Uttarakhand • 2021

# CERTIFICATIONS

## Discrete Mathematics

**IIT Kharagpur – Swayam NPTEL • 2022 • 60%**

## Probability and Statistics

**IIT Kharagpur – Swayam NPTEL • 2023 • 52%**

* Python for Data Analysis: Pandas and Numpy

**Coursera Project Network - 100%**

## Introduction to Machine Learning

**IIT Kharagpur – Swayam NPTEL • 2022 • 63%**

* **Deep Learning Specialization**

**Coursera – Deep Learning.AI (Andrew Ng) • 2024 • 100%**

## Introduction of Internet of Things

**IIT Kharagpur – Swayam NPTEL • 2023 • 91% (Top 5%)**

# AI INTERN – AICTE-MICROSOFT & SAP (TECHSAKSHAM PROGRAM) Feb 2025 – Present

# Developed an AI-powered Resume Screening and Ranking System using Machine Learning and NLP to automate hiring.

# Engineered TF-IDF vectorization for feature extraction, improving resume-job description similarity analysis.

# Trained an optimized K-Nearest Neighbors (KNN) model for classification, achieving high prediction accuracy.

# Implemented cosine similarity to rank resumes based on job description relevance dynamically.

# Built an end-to-end pipeline for resume parsing (PDF/DOCX), text preprocessing, and classification.

# Developed a Flask-based API for real-time resume screening and ranking integration.

# Improved model efficiency using stratified train-test splitting and hyperparameter tuning (n\_neighbors optimization).

# Evaluated model performance, achieving 98.6% accuracy on unseen resume data.

# Participated in weekly AI mentorship sessions led by industry experts from Microsoft & SAP.

# PROJECTS

## Dungeon Escape Game (C++ with SFML)

* **Developed a 2D grid-based dungeon game with procedural layout generation and collision detection.**
* **Implemented keyboard-based controls, real-time rendering, and interactive traps triggering "Game Over" scenarios.**
* **Optimized gameplay logic for smooth rendering and modular scalability using efficient data structure.**
* **Utilized Code Runner, CMake, and GitHub Copilot for development and debugging.**

**Sentiment Analysis in Code-Mixed Video Comments Using Deep Learning**

* **Achieved 88% accuracy, outperforming Naive Bayes and SVM by 10-13%.**
* **Developed a hybrid deep learning model (BERT + LSTM) for contextual and sequential sentiment detection.**
* **Built a preprocessing pipeline for tokenization, language detection, and normalization to handle informal text.**
* **Integrated the model into a Google Chrome Extension using Flask API and JavaScript, enabling real-time sentiment analysis of YouTube comments.**

# ADDITIONAL INFORMATION

* **Technical Skills: Proficient in C++, Python, and Data Structures and Algorithms, with hands-on experience in Machine Learning, Neural Networks, and Deep Learning.**
* **GitHub : https://github.com/ujjwalchadha-create**
* **Research Paper: Authored research papers on advanced machine learning techniques, achieving up to 99.7% accuracy in fake news detection and 88% accuracy in sentiment analysis of code-mixed video comments (accepted in CMT).**
* **Collaboration Skills: Team Collaboration, Adaptability, Peer Mentoring, Conflict Resolution, and an Optimistic Approach.**
* **Interests: Exploring advancements in AI-ML, contributing to open-source C++ projects, and developing real-time systems and game frameworks.**