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# Aviruddh Singhal

**Technical Skills:** Python, ML, C++, C, Java, SQL, HTML, CSS, Javascript, AWS, OpenCV, MS office, NumPy, PyTorch, Pandas, Scikit

## Certifications:

- AWS Certified Cloud Practitioner, Amazon Web Services (AWS) [Jan 2024]
- Python For Everybody, University of Michigan [Oct 2024]
- Cloud Computing, NPTEL [May 2024]
- Microsoft Office Specialist: Microsoft Excel 2013, Microsoft [May 2019]
- Microsoft Office Specialist: Microsoft Word 2013, Microsoft [May 2018]

## EDUCATION

Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE) Core	Oct 2022–Ongoing	VIT Bhopal University, Madhya Pradesh	9.03/10
Class XII	March 2022	Maharaja Agrasen Model School, Delhi	85%
Class X	March 2020	Maharaja Agrasen Model School, Delhi	90.8%

## ACADEMIC PROJECTS

<b>Facial Recognition Attendance System</b> [Feb 24 – May 23]	<b>Leading a 5-member team to build a e2e deep learning model for real time facial recognition</b> of students & automated attendance record keeping <ul style="list-style-type: none"><li>• Collected ~400 images per student and trained the model with <b>75-80% accuracy achieved</b></li><li>• <b>Technology used:</b> Python, Machine Learning, Deep Learning, OpenCV, Haar Cascade, Local Binary Histogram Pattern (LBPH), Tkinter</li><li>• Link: <a href="https://github.com/aviruddh1234/Real-Time-Facial-Recognition">https://github.com/aviruddh1234/Real-Time-Facial-Recognition</a></li></ul>
<b>Heart Disease Detection</b> [Nov 23– Dec 23]	Built a <b>back-end machine learning model to predict likelihood of heart related diseases</b> in an individual <ul style="list-style-type: none"><li>• Used <b>~1K patients' medical data (10+ fields)</b> to build prediction model with <b>80%+ accuracy</b></li><li>• <b>Technology used:</b> Python, Kaggle, Logistic Regression, Scikit</li><li>• Link: <a href="https://colab.research.google.com/drive/1_YDCx61fwhxsyeT14ZCQk5hrj-ApqsoH?usp=sharing">https://colab.research.google.com/drive/1_YDCx61fwhxsyeT14ZCQk5hrj-ApqsoH?usp=sharing</a></li></ul>
<b>ASL Translator</b> [Aug 23 – Sep 23]	<b>Led a 5-member team</b> to conceptualize and build back-end model for real time conversion of hand gestures (ASL) to English letters to aid deaf & dumb people <ul style="list-style-type: none"><li>• Collected <b>~8K images (300-350 images per letter)</b> to train the model with <b>~90% accuracy</b></li><li>• <b>Technology used:</b> Python, Machine Learning, CNN, OpenCV, TensorFlow, Keras</li><li>• Link: <a href="https://github.com/aviruddh1234/ASL-Translator-">https://github.com/aviruddh1234/ASL-Translator-</a></li></ul>

## CO-CURRICULARS

<b>Coding</b> [Ongoing]	<ul style="list-style-type: none"><li>• <b>HackerRank:</b> 5 Star in Python, 4 Star in SQL &amp; Java, 3 Star in C++</li><li>• <b>Leetcode:</b> solved 100+ problems on topics such as data structures, SQL, Pandas etc.</li><li>• <b>GeekForGeeks:</b> solved 100+ problems on topics such as data structures, dynamic programming etc.</li></ul>
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## EXTRA-CURRICULARS AND ACHIEVEMENTS

<b>Achievements</b>	<ul style="list-style-type: none"><li>• Selected in <b>Amazon Machine Learning Summer School 2024 (3K/ 60K+ applicants)</b> in 1<sup>st</sup> attempt</li><li>• <b>Top 1% (out of 20K+ students)</b> in Cloud Computing examination organized by NPTEL</li><li>• <b>1<sup>st</sup> Runner up (5K+ participants)</b> in <b>National level Compudon, Season IX - Office championship (Excel 2013)</b> by Microsoft</li><li>• Successfully completed <b>100 days of Coding Challenge on Leetcode</b></li></ul>
<b>Responsibilities</b>	<ul style="list-style-type: none"><li>• Member of the Microsoft Technical Club, VIT</li><li>• Member of Nature and Trekking Club, VIT</li></ul>
<b>Extracurricular</b>	<ul style="list-style-type: none"><li>• Participant, AdvITYa (University Cultural and Technical Fest) (Feb 23)</li></ul>

## ADDITIONAL INFORMATION

<b>Hobbies</b>	<ul style="list-style-type: none"><li>• <b>Trekking:</b> successfully completed <b>5+ easy-medium difficulty treks</b> organized by NHA, River &amp; Ridges etc.</li><li>• <b>Sports:</b> Cricket, Badminton, Swimming</li><li>• <b>Avid Book Reader:</b> read numerous self-help books like Atomic Habits, Power of Subconscious Mind etc.</li><li>• <b>Sketching:</b> enjoy sketching, and despite being a beginner, I create impressive sketches</li><li>• <b>Music Enthusiast:</b> basic proficiency in piano; enjoy creating simple melodies in my free time</li></ul>
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