Manan **Bansal**

☎ (+91) 7508053684 | ✉ mananbansal2808@gmail.com | ⌨ manan-bansal | 🔗 manan-bansal-34252b1a0

Education

International Institute of Information and Technology, Bangalore   *Bangalore, Karnataka*
INTEGRATED MASTER OF SCIENCE IN COMPUTER SCIENCE   *Aug 2018 - Present*
- CGPA: 3.28/4.0 (Till 5th Semester)

D.C Montessori School, Chandigarh   *Chandigarh*
CLASS XII   *April 2018*
- Board Percentage - 94.8

Delhi Public School, Chandigarh   *Chandigarh*
CLASS X   *March 2016*
- CGPA - 10

Skills

Languages	JavaScript, C++, C, Python, Java, HTML, CSS
Database	MySQL
Developer Tools	PyTorch, WebGL, Pandas, Sklearn, NumPy, Selenium, Verilog, Latex

Projects

Virtual Reality Application using WebGL | (03/2021 - 05/2021)
- Built a Virtual Reality Application using WebGL and JavaScript.
- It included the concepts of 3-D modelling and animations, lighting effects and texture mappings.

Image Captioning using PyTorch | (04/2021 - 05/2021)
- Built a program to detect the captions of the given images.
- Built a Encoder-Decoder Architecture for the same.
- The encoder was a Resnet50 Model and the decoder was an Attention based Model.
- Used the Flickr8k dataset to train the Model.

Human Face Mask Detection using PyTorch | (02/2021 - 03/2021)
- Built a program to detect whether a person is wearing a mask or not.
- Built using YOLO Object Detector and a CNN Mask Classifier.

AirBnB New User Bookings Prediction | (09/2020 - 12/2020)
- Trained an ensemble model based on XGBoost on a given dataset to predict country destinations for the new users.
- Used different data pre-processing techniques to clean the given dataset.

Online Banking Management System | (04/2021 - 05/2021)
- Designed a bank management system using Socket Programming and Threading with a single server and multiple clients.
- Multiple clients can be hosted together by the server.
- Implemented the file locking mechanism using Semaphores to avoid clashes.

Abstract Syntax Tree for C Programming Language | (04/2021 - 05/2021)
- Built a program to generate the Abstract Syntax Tree for a given C Program.
- Built a Lexer and Parser to tokenize and check the the input program for the given Grammar rules for C Programming Language.

Flipkart - Whatsapp Automation using Selenium | (12/2018-01/2019)
- Built a python program using python's module selenium that lets a user order daily needed items from flipkart by simply typing a message on whatsapp.

Cache Simulator | (11/2019 - 12/2019)
- Created a direct-mapped cache in C++ to hold 256 blocks, 16 or 32-bit instructions per block with a 32-bit address line.
- Calculated the change of miss rate with respect to different word sizes per block.

Relevant Coursework

Core Courses
• Data Structures and Algorithm
• Computer Networks
• Operating Systems
• Database Management Systems
• Computer Architecture

Electives
• Computer Graphics
• Visual Recognition
• Machine Learning
• Maths for Machine Learning

Achievements

5-Star on Hackerrank   View Profile
JEE MAINS AIR   8746
JEE ADVANCED AIR   6714

Organisations

Zense - Software Development Club at IIIT Bangalore
• Member : 02/2019 - 12/2019