

(+44) 07429-893316
Nottingham, United Kingdom
anshumansingh1999@yahoo.com

Anshuman Singh

GitHub: Anshuman-37
LinkedIn: Anshuman Singh

A passionate, result-driven, academically proficient post-graduate with a background in Computer Science, Machine Learning, and Deep Learning. I seek to work in the field of AI and be at the forefront of an ongoing tech revolution.

EDUCATION

MSc. Machine Learning in Sciences

University of Nottingham

Predicted: First Class Honours

Course Modules

Spring Semester

Machine Learning in Sci Part I
Machine Learning
Statistical Foundations
Scientific Programming in Python

Autumn Semester

Machine Learning in Sci Part II
Big Data
Designing Intelligent Agents

September 2021 — Present

Nottingham, United Kingdom

B.Tech. Computer Science and Engineering

Guru Gobind Singh Indraprastha University

Obtained: First Class Honours CGPA: 8.45 out of 10

Course Modules

Year - 1

Applied Mathematics
Applied Physics
Manufacturing
Electrical Technology
Fundamentals of Computing
Professional Ethics
Programming Introduction
Engineering Mechanics

Year - 2

Applied Mathematics
Foundation of CS
Logic Design
Data Structures
Circuits and Systems
Computer Architecture
Theory Of Computation
Database Management
OOPS Programming

Year - 3

Algorithm Design
Software Engineering
Digital Communication
Industrial Management
Compiler Design
Operating Systems
Computer Networks
Microprocessor

Year - 4

Information Security
Advanced Computer Networks
Software Testing
Wireless Communication
Data Mining
Machine Learning
Mobile Computing
Big Data
OOPS Software Engineering

July 2017 — August 2021

New Delhi, India

TECHNICAL EXPERIENCE

Data Science Intern

Conex Research

April 2022 — Present

Europe

- The project aims to get an optimal landing site on titan, using the Cassini rovers data. The data is to be extracted from qub format and a need to be mapped around Titan's lake to find the place with optimal temperature to land a space probe.

Software Engineering Intern

Center for Railway Information System

June 2019 — August 2019

Delhi, India

- I developed a software in JSP inculcating JQuery and Python to make a decentralised rake management system to optimise the operating cost and maximising the profit.

OTHER EXPERIENCE

A level Computer Science Personal Tutor

C++ and MySQL tutor

April 2018 — March 2021

New Delhi, India

- Worked as a personal tutor for Computer Science fundamentals including C++ and SQL for senior high school students.

Smart India Hackathon

Moon Visualizer

August 2020 — August 2020

New Delhi, India

- Created an application to make a 3D model of moon in virtual reality using the tiff data and map to real moon coordinates.

HackDTU

AR book reader

March 2018 — March 2018

New Delhi, India

- Created an android application to present a PDF in Augmented Reality to make it fun and exciting to read through. I was runner up in the competition.

Sternity Hackathon

Trash Classifier

October 2019 — October 2019

New Delhi, India

- Created a python application to classify garbage and separate the garbage accordingly in dustbin itself to save on resources.

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SKILLS

Tools and Languages	Python, Git, C, C++, Java, JavaScript, React, Android Studio, MySQL, PySpark, RDD, MLlib
Technical Skills	Data Structures and Algorithms, Data Science, NLP, Deep Learning, Machine Learning
Communication	English (First Language), Hindi (reading and writing), Punjabi (reading and writing)

PROJECTS

Self Driving Car April 2022 — May 2022
Coursework Project Nottingham, UK

- The project uses transfer learning to predict the speed and angle for a given data. The model was further deployed on a raspberry-pi car as a real life scenario, the tracks had 3D printed obstacles, such as pedestrians and traffic lights.

Twitter Sentiment Analyser April 2022 — April 2022
Coursework Project Nottingham, UK

- Used PySpark to collect data and then used NLTK libraries, TextBlob to get the sentiment of tweets. Using PySpark allows the model to be implemented on clusters and get the results for huge amount of Data.

Newspaper Summarizer March 2022 — March 2022
Coursework Project Nottingham, UK

- An agent to scrape google news and make topic wise news summary of the news using Attention models and Transformers. The generated summary is evaluated using ROGUE score.

Music Generator March 2022 — March 2022
Personal Project Nottingham, UK

- A RNN model which uses Long Term Short Memory(LSTM) to generate music from Nottingham music Database.

Automatic Cat Feeder December 2021 — December 2021
Coursework Project Nottingham, UK

- Project aims to automate the task of feeding a specific cat in our University dorms. It utilizes YOLO object detection algorithm to detect the cat and a custom CNN to detect the specific cat. Result is stored in Firebase which is accessed by android application.

Auto Tracker March 2018 — March 2018
Personal Project New Delhi, India

- A location tracking android application to track friends/family using SMS code and intents.

Mp3 Player January 2018 — February 2018
Personal Project New Delhi, India

- A local Mp3 player using created using android studio to understand the use of sqlite.

ACHIEVEMENTS

Graduate Aptitude Test in Engineering 2021

- Achieved 93 Percentile with a score of 437 in an all India Exam

Smart India Hackathon 2020

- Attended the Smart India Hackathon, and reached to the Indian finals for the ISRO problem statement and finished as the first runner up all over India among 200,000 participants

Strong Problem Solving Ability

- Solved More than 300 coding questions on Geeks for Geeks

Hash Code

- Participated in Hash Code by Google in 2021,2022