Janvi Chhabra

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Education

International Institute of Information Technology, Bangalore

Aug. 2018 - Present Integrated Masters in Computer Science, GPA: 3.32/4 Bengaluru, Karnataka

Jun. 2016 - March 2018 Divine Child High School Surat, Gujarat

Class XI, XII (PCM), Percentage (PCM): 93.6

Ryan International School April 2015 – March 2016

Class X, GPA: 10/10

Surat, Gujarat

Experience

Teaching Assistant, IIIT Bangalore Aug 2022 - Present

TA for The Web and the Mind course.

Software Engineer Intern, Microsoft May 2022 - July 2022

Summer Intern working on visualization dashboard for the Service Health.

Mentee at Microsoft Engage, Microsoft June 2021 - July 2021

I worked on video calling application for a 3 weeks in Microsoft Engage Program.

Teaching Assistant, IIIT Bangalore November 2020 - March 2021

TA for C Course to 147 students (IMTech first year).

Undergraduate Research Intern, IIIT Bangalore

This involved studying challenges of CHES CTF(Capture The Flag) contest, which involved studying various

white-box implementations and also corresponding attacks.

Projects

Intrinsic Motivation | Multi Agent Systems, Game Theory

• Modelled a network of agents with different intrinsic incentives. Agents with different intrinsic incentives can perceive same payoff differently. Interactions between agents with disparate intrinsic motivations in different kinds of social networks.

Computational Ethics | Multi Agent Systems, Ethics

A generic multi-agent framework onto which, different models of computational ethics are being implemented

EMPOW(HER): Visualization Dashboard for analyzing Crime against Women | Data Visualization April 2022

 An interactive visual analytic tool built from scratch. Visuals provides spatial, temporal and crime-specific analysis of gendered crime happening in India.

VR Animation and Textures | Computer Graphics

May 2021

August 2022

May 2020 - July 2020

September 2022

• This was a Computer Graphics project which involved 3D rendering with animation, camera setup, and textures.

Optical Character Recognition Scanner | OpenCV

July 2019

• Performs both detection and recognition of text. Developed using OpenCV.

Six Sense Robot | OpenCV, Arduino

July 2019

This involved developing robot with six sense technology. Image Processing was done using OpenCV.

Fun Quiz Application | Web Development

December 2018

• Built an interactive quiz web application using Flask. Includes features of individual and overall leader board.

Technical Skills

Programming Languages: Python, Java, C, C++, Javascript, Verilog, Octave, R Technologies/Frameworks: Linux, GitHub, Flask, Django, Shiny, React

Writing

Manifestations of Software Bottleneck

• Explored the various ways in which software bottleneck can be resolved, and the spatial manifestations of software bottleneck and how that can be used in to resolve bottleneck. pdf

Human and AI relations: The Shylock Syndrome

• The motivation here is to understand the driving force for both humans and AI. Further explores, how this interplay can affect their relation dynamics. pdf

Gendered Nature of Surveillance

• The aim was to understand that how much surveillance is the source and consequence to the gender relations in society and vice-versa. Important points which were addressed were: who are involved in designing and decision-making process and for what purpose is the technology designed for, and how it is affecting social relations. pdf

Disneyland Paris: Understanding Glocalization and Socio-Spatial Significance of Cultural Expansion

• Highlights the spatial significance of Disney Park in Paris and how glocalization theory played an important role in the success of Disneyland Paris. Along with glocalization, comes the concept of cultural capital, socio-spatial and the impacts of these. pdf

Relevant Coursework

- Data Structures
- Machine Learning
- Algorithms Analysis
- Database Management
- Software Engineering
- Data Visualization
- Discrete Mathematics
- Computer Architecture
- Automata Theory
- Computer Graphics
- Operating Systems
- Cryptography
- Advanced Data Visualization
- The Web and the Mind
- Technology and Society
- The Dynamics of IT Industry
- Multi-Agent Systems

Leadership / Extracurricular

Indocrypt 2020
Organizing Committee

IIIT Bangalore

• Indocrypt 2020 is part of the Indocrypt series organised under the aegis of Cryptology Research Society of India (CRSI), and this edition is held in cooperation with IACR.

Ramanujan, Math & IT Conference

2018, 2019

Volunteer

IIIT Bangalore

• RMIT 2019 was the tenth in the series on Ramanujan, Math and IT held annually.