



# Swarnadeep Bhar

## Curriculum Vitae

☎ (+91) 6290988168, (+33) 745683027  
✉ sbhar8597@gmail.com, swarnadeep.bhar@irit.fr

### Education

- 2022–2025 **PhD**, *Computer Science*.  
University Paul Sabatier
- 2018–2020 **M Sc**, *Computer Science*, Chennai Mathematical Institute, Siruseri, Chennai CGPA 8.0.
- 2015–2018 **B Sc**, *Department of Computer Science*, Ramakrishna Mission Vidyamandira, Belur Math, Howrah CGPA 9.16.
- 2015 **ISC**, Don Bosco School, Bandel, India 90.35%.
- 2013 **ICSE**, Don Bosco School, Bandel, India 93.4%.

### Research Interests

Natural Language Processing  
Generative Models  
Human Computer Interaction  
Large Language Models

### Published Papers

#### Limits for Learning with Language Models

Nicholas Asher, Swarnadeep Bhar, Akshay Chaturvedi, Julie Hunter, Soumya Paul  
\*SEM 2023

#### Analyzing Semantic Faithfulness of Language Models via Input Intervention on Conversational Question Answering

Akshay Chaturvedi, Swarnadeep Bhar, Soumadeep Saha, Utpal Garain, Nicholas Asher  
Computational Linguistics

#### Strong hallucinations from negation and how to fix them

Nicholas Asher, Swarnadeep Bhar  
arXiv preprint

## Projects

- Master's Thesis **Image Captioning Using Variational Auto Encoder**  
*Prof. KV Subrahmanyam, Chennai Mathematical Institute*
- Sept 2020 **Multiple Tweet Emotion Recognition Using BERT**  
*SPOTLE India AI Hackathon*
- Aug 2020- **Intelligent Embeddings Directed towards Image Captioning**  
*Prof. KV Subrahmanyam, Chennai Mathematical Institute*
- Aug 2020- **Unsupervised Approach to Learn the Joint Embedding of Images and Text**  
*Prof. KV Subrahmanyam, Chennai Mathematical Institute*
- Jan 2020 **Image Classification using transfer learning via VGG features,**  
*Course Project for Computer Vision*
- Jan 2020 **Image Feature Engineering Using SIFT and Harris Corner Detection**  
*Course Project for Computer Vision*
- June 2019 **Text Classification and Prediction via (GLOVE Embeddings) on a Native Language Corpus**  
*Course Project for Text Analytics*
- Dec 2019 **Resume Parser using rule based systems**  
*Personal Project*
- Nov 2018 **One shot face Recognition using Facenet**  
*Applied Machine Learning Course Project*
- May 2019 **Learning to Rank Source Code with Code Embeddings**  
*Prof. Venkatesh Vinayakara, Chennai Mathematical Institute*
- Apr 2019 **Predicting Food Crisis using ML techniques**  
*Machine Learning Hackathon, NIT Silchar*
- College Final Year Project **Redesigning our College Website for Account-Based Hierarchy and Improved UI**  
*Prof. Atanu Mondal, Department of Computer Science, Ramakrishna Mission Vidyamandira*
- May 2017 - June 2017 **Document Indexer for Information Retrieval**  
*Dwaipayan Roy, IR Lab, ISI Kolkata*

## Achievements

Secured the first Position in SPOTLE India AI Hackathon

## Technical Skills

Programming PYTHON, JAVA, C++, C

ML-Packages	TENSORFLOW, PYTORCH,KERAS, SKLEARN, MATPLOTLIB
Software	ATOM, MS WORD, MS EXCEL, MS POWERPOINT, GOOGLE COLAB
Database	SQL
Web Development	HTML, CSS, PHP

## Coursework

Core Courses in B.Sc	Discrete Mathematics, Database Management Systems, Data Structures, Object Oriented Programming,Computer Organization and Architecture, Analysis and of Algorithms, Operating System,Software Engineering
Core Courses in M.Sc	Theoretical Foundations Of Computer Science, Natural Language Processing, Applied Machine Learning, Advanced Machine Learning, Data Mining and Machine Learning, Mathematical Logic, Convex Optimization, Reinforcement Learning, Design and Analysis of Algorithms, Theory of Computation, Programming Language Concepts, Computer Vision