



Debaghya Datta

M.Tech: Computer Science & Engineering

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Examination	University	Institute	Year	CPI/%
Post Graduation	IIT Bhilai	IIT Bhilai	2022-24	9.64
Graduation	KIIT	KIIT	2017-21	9.22
Senior School	HSC	Aditya Academy	2017	85.00
Secondary School	SSC	Aditya Academy	2015	9.40

PROJECTS

- **Entity Linking in Low-Resource Domain**
(under *Dr. Soumajit Pramanik*: Paper Submitted) (Dec'22-May'24)
 - Devised a novel domain-specific unsupervised Entity linking system.
 - Showed effectiveness in the low-resource domains (Chemical, Medical, Literature).
 - Outperformed the state-of-the-art models in the low-resource domain by 2-14%.
- **Exploring the Realm of Drug-Drug Interaction** [Link] (Aug'23-May'24)
(under *Dr. Rukmankesh*: Paper Submitted)
 - Predicting the Drug-Drug Interaction using Deep Learning
 - Explored GCN & Node2Vec models for representation learning
 - Time-efficient architecture with 95+% accuracy
- **Information Extraction from Scientific Papers** [Link] (Oct'23-Nov'23)
 - Extracting contributions from Scientific Papers
 - Replaced Relation extraction model Dygie++ with PL-Maker
 - Improved 23-33% in the precision of Task and Method extraction.
- **Query Summarized Attention for TREC-CT 2022** [Link] (Feb'23-Mar'23)
 - Used BM25 retriever and BERT-Reranker
 - Created a Key-Word Summerizer module to create Query summaries
 - Able to outperform the published models in 2/3 metrics

TECHNICAL SKILLS

- **Programming & Scripting Languages:** C, C++, Java, Bash & Posix, Python, HTML, CSS
- **Tools & Libraries:** Git, Linux, MySQL, seaborn, \LaTeX , Pytorch, Sklearn, Huggingface, Llamaindex, Metaflow
- **CS Fundamentals:** Data Structure & Algorithms, Operating Systems, DBMS

WORK EXPERIENCE & INTERNSHIPS

- **Systems Engineer | TCS** (May'21-July'22)
 - Functional Testing of E2E Features
 - Automated manual test scenerios
- **Tech Intern | HighRadius** (Apr'20-June'20)
 - Completed a full stack software project
 - Got one Year extended Internship offer

POR & EXTRA-CURRICULARS

- **PG-CSE Student Representation** at IIT Bhilai (July'23-May'24)
- **Teaching Assistant** for the course, **CS100 : Software Tools and Technologies** (Mar'23-May'23)
- **Teaching Assistant** for the course, **DS210 : Data Analysis and Visualization** (Jan'23-Mar'23)

ACHIEVEMENTS

- Selected among 1220 contributors for Google Summer of Code 2024.
- Achieved All India Rank (AIR) 1683 in GATE 2021.

RELEVANT COURSES

CS550: Machine Learning DS504: Natural Language Processing
DS501: Information Retrieval CS559: Computer System Design