

# Partha Pratim Saha

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Interested in pursuing a PhD in Natural Language Processing, Deep Learning, Machine Learning areas

## EDUCATION

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• **Birla Institute of Technology and Science (BITS), Masters Degree, Data Science & Engg.** Pilani, India  
GPA: 9.08(First-class Distinction)/10, Courses: Data Mining, Machine & Deep Learning, NLP, Maths Sept'19-Mar'22

• **West Bengal University of Technology, Bachelor Degree, Computer Science Engg.** Kolkata, India  
GPA: 8.49/10, Courses: Operating Systems, Data Structures, Algorithms, Artificial Intelligence, Maths Aug'06-Jul'10

## SKILLS SUMMARY

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- **Text Mining and NLP:** Document Similarity, Concept Net, Language Modelling, Word2Vec, Transformer, BERT
- **Deep Learning:** Neural Network, CNN, RNN, Attention architecture, Chatbot, Image Captioning
- **Machine Learning:** Regression, Classification, Clustering, Tree Based Algorithms, Bagging, Boosting
- **Frameworks:** Scikit, Numpy, Pandas, NLTK, SpaCy, TensorFlow, Keras, Flask, NodeJS
- **Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, Matlab, SQLite
- **Domains:** Cancer Genomics, Bioinformatics, Real Estate, Finance and banking
- **Platforms:** Azure, AWS, IBM Cloud, Watson ML, Amazon EC2
- **Programming Languages:** Python, C, Java, R

## WORK EXPERIENCE

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- **Wipro Technologies, Project Info: ChatBot development** Bangalore, India  
*AI Lead Data Scientist* May'21 - Date
  - **My role:** Developed task based conversational systems using room reservation Intents, Entities and booking related Dialog flow and finally deployed the end-to-end the project on IBM Cloud
  - **Impact:** Used by **0.3 million people** worldwide
  - **Skills:** Dialog skill, IBM Watson, NLP, Postman, NodeJS, IBM Cloud
  - **Team handling:** Led **02 projects with 5 members each**
- **Damodar Valley Corporation, Project Info: AI based medical Search Engine** Kolkata, India  
*Assistant Engineer* Dec'17 - Aug'19
  - **My role:** Developed a search engine using SciSpacy NLP pipeline techniques, e.g. stemming/lemmatization, dependency parse tree generation, parts-of-speech tagging
  - **Impact:** Used by **millions of users** who use Johnson & Johnson products
  - **Skills :** Python, Word2Vec, SciSpacy, Fuzzy Search, Flask, Text Mining, Information Retrieval, NLP
- **Infosys Technologies Limited, Project Info: Cancer Genomics in AI** Chennai, India  
*Senior Systems Engineer* Jan'11 - Dec'13
  - **My role:** Identified top 10 genes that drives Multiple Myeloma(MM) blood cancer using regression and clustering to rank genes responsible for MM using 3 research papers
  - **Impact:** **Drug Design** to market, **Increase in life expectancy**
  - **Skills:** Python, Word2Vec model, Machine Learning, Numpy, Pandas, Bioinformatics
- **Infosys Technologies Limited, Project Info: Genomic Sequence Alignment** Chennai, India  
*Senior Systems Engineer* Jan'14 - Jul'15
  - **My role:** Applied Edit Distance and Needleman Wunsch algorithms to determine minimum no of insertions, deletions needed for given gene sequences in FASTA file to identify similarities between those sequences
  - **Impact:** **Biological hierarchy determination** to identify new species
  - **Skills:** Python, Pandas, Sequence alignment, Dynamic programming

## HONORS AND AWARDS

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- Received **Distinction** in Master Degree program from BITS Pilani, 2022
- **Udacity Bertelsmann Technology scholarship** for AI Track in ML with TensorFlow program, 2021
- Got accepted in **New York University(NYU)** AI Summer School, 2022
- Awarded for **ICML 2021** with 100% registration fee scholarship to attend conference and workshop track, 2021
- Awarded for **CLPsych by ACL 2022** with 100% Registration scholarship to attend **NAACL 2022** conference
- Got selected to attend the **Google Developer's program**, Google India, 2019
- Presented '**Attention Is All You Need**' Paper at Portland State University, USA, 2021

## VOLUNTEER EXPERIENCE

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- **Reviewer - JOSS and ML4H conference** ML4H  
*Served as a Reviewer of JOSS journal and ML4H conference papers* Dec'21