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SAP LABS India Pvt. Ltd.
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EDUCATION **Birla Institute of Technology & Science**, Pilani, India
Master of Technology, Software Engineering, July 2018 (Expected) CGPA: 9.62
(Part of Scholar program funded by SAP)

Institute of Engineering & Management(IEM), Kolkata, India
(Affiliated to MAKAUT, formerly known as West Bengal University of Technology)
Bachelor of Technology, Computer Science and Engineering, June 2016 CGPA: 9.22

EMPLOYMENT **SAP LABS India Pvt. Ltd.** Aug 2016 - Present
Scholar Bengaluru
Leonardo Machine Learning Team, Innovation Centre Network

- Designed and implemented an ML model evaluation platform from scratch
- Implemented new and improved existing Machine Learning and Deep Learning models for text mining
- Technologies used: Python, MongoDB, HTML5, JavaScript, CSS

Fashion Management Solutions Team

- Implemented custom enhancements in Materials Management and Sales & Distribution modules of SAP ERP which got delivered to customers like Adidas
- Technologies used: ABAP

INTERNSHIPS **Indian Institute of Remote Sensing, ISRO** Dec 2015 - Mar 2016
Advisor: Prof. Shiva Reddy Koti & Prof. Dr. Sameer Saran Dehradun

- Performed Clustering Analysis on weekly public health data from *Integrated Disease Surveillance Program, Govt. of India* to identify regions with similar disease patterns in Dehradun district for each of the 15 diseases
- Performed Time Series Analysis to identify outbreaks of diseases and found specific regions contributing maximum to the outbreak
- Studied similarity patterns between obtained clusters and regions identified from outbreaks analysis
- Recognized Geolocations for all the districts and laid out maps for each disease using color coding scheme to segregate districts into High, Medium and Low intensity on the basis of patterns obtained
- Technology Used: R(RStudio), QGIS, Google Maps APIs
- Paper submitted to the *Journal of the Indian Society of Remote Sensing, Springer*

Codeblix(a NASSCOM recognized startup) Jun - July 2015
Mentor: Mr. Anurag Prajapat Kolkata

- Developed a hybrid mobile app which enabled users to reserve parking slots at various parking venues for particular time slots across Kolkata
- Technology Used: Telerik Platform, PHP, MySQL, Google Maps APIs, HTML5, CSS, JavaScript

ACADEMIC PROJECTS

- Developed **BookMyTicket**, a web cum mobile app for booking movies seats and pre-ordering food
- Developed **Kirana**, an end to end E-Commerce web application for grocery
- Developed a Java(Spring) based app for making **flight ticket reservations**
- Developed a **College Attendance Management System** for tracking student attendance

RESEARCH PROJECTS

Empirical Study to Evaluate the Performance of Classification Algorithms on Healthcare Datasets

Oct - Dec 2016

Advisor: Prof. Saptarsi Goswami, University of Calcutta

- The perfect classifier selection for healthcare datasets was addressed in the study
- 13 healthcare datasets obtained from University of California, Irvine ML Repository were pitted against 5 classification algorithms
- Accuracy, Recall, Precision and F1 score were used as parameters for evaluation
- Statistical significance was studied using p-value calculation
- Concluded that Ensembling algorithms (Gradient Boosting and Random Forest) performed better than SVM, Naïve Bayes and Conditional Inference Trees
- Accepted at *World Journal of Computer Application and Technology*

Application of Twitter in Health Care sector of India

Nov - Dec 2015

Advisor: Prof. Saptarsi Goswami, University of Calcutta

- Collected 15000+ tweets from healthcare related specific handles and used Word Clouds and Top Word Analysis to observe trends in disease patterns based on social media discussions
- Studied and visualized the impact of Mission Indradhanush (a Govt. of India initiative for ensuring full immunisation of children) using Maps
- Accepted at *IEEE-Recent Advances in Information Technology (RAIT) 2016*

Data Mining Techniques in Indian healthcare: A short review

Advisor: Prof. Saptarsi Goswami, University of Calcutta

Aug - Oct 2015

- Studied 61 research papers to analyse the data science research performed in healthcare domain with special focus on India
- Highlighted the patient life cycle and identified the role of health care entities in each stage from an industrial perspective
- Identified how Data Science can play a major role to improve healthcare in India
- Accepted at *IEEE-Man and Machine Interfacing (MAMI) 2015*

Filter Based Feature Selection Methods using Hill Climbing Approach

Advisor: Prof. Saptarsi Goswami, University of Calcutta

Nov 2016 - Jan 2017

- Hill Climbing as a heuristic search technique for feature selection was studied
- Variants of Hill Climbing based on
 - tradeoff between greediness and randomness
 - direction of search
 - size of neighborhood, were evaluated further
- Hill Climbing displayed a 1.7% better classification accuracy when compared with Genetic Algorithm on 20 publicly available datasets
- Paper submitted to *Sādhana Academy Proceedings in Engineering Sciences, Springer*

COMPUTER SKILLS

Languages: C, C++, Java, Python, R, SQL, PHP, JavaScript, \LaTeX , HTML, CSS

OS: Windows, Linux

Databases: MongoDB, MySQL, Oracle 11g

Applications and IDEs: RStudio, PyCharm, NetBeans, Codeblocks, Git

Tools and Libraries: NLTK, Keras, Gensim, NumPy-SciPy-Sklearn, Flask, Theano

AWARDS AND ACHIEVEMENTS

- **Innovation Award**, SAP for developing a system in *What The Hack* event capable of ranking candidates for a required skillset using scraped data and resumes
- **Sougata Mondal Memorial Award** for outstanding contribution to the UG Institute (Senior year)
- **Outstanding Student of the year**, UG Institute (Junior year)
- Ranked 1st in **M.Tech** batch presently after 2 semesters
- Amongst the **top 3** of the CSE department in **B.Tech**
- **Codeforces** Rating of **1441 (Highest 1545, Specialist Level)**.
- **Winner, Regional round** at *Aspirations 2020*, programming contest by *Infosys*
- **Rank 82nd** among 40000+ teams in *TCS Codevita*