

Partha Pratim Saha

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I am passionate about research and love reading research papers. I am highly interested to pursue doctoral degree in a related area of data analytics & machine learning.

Skills

- **Technical:** C, Python, Core Java, iOS, Objective-C, C++, Data Mining techniques, Tensorflow (currently learning), SubVersion (SVN), Github, Matlab, LaTeX
Have basic ability with: VHDL, Android applications development
- Implemented **Machine Learning algorithms** using Python. Highly interested to work on **R**.
- **Managerial and business skills:** Run **family business** along with my father since I was in 7th std. I have **acquired business and managerial skills on handling people, facing clients & customers of different cultures, managing time and finances on different economic conditions along with my study.**
- **Web basics:** Kibana, ElasticSearch & Logstash (ELK).
- **Languages:** English, Hindi, Bengali.

Projects

- **Implemented Machine Learning techniques**
 - worked on **decision tree, gradient descent, metric learning using k-Nearest Neighbors (k-NN), Recurrent Neural Network (RNN)**, basics of convex optimization, **Support Vector Machine (SVM)**.
- **Biological Sequence Alignment using Python**
 - Used **dynamic programming** to transform given DNA sequences into another sequence using minimum number of insertion, deletion, or substitution operations.
 - For evolutionary relationship, I used **Phylogenetic tree**.
- **Kernel Programming on Ubuntu 16.04**
 - Wrote and added custom modules to Ubuntu kernel, analyzed performance of synchronization mechanisms using linux locks in C.
- **Lexis Advance®**, 'iOS application for **LexisNexis Inc., USA**'
 - As an iOS developer, I worked on **Alert** module, that notifies the user before any offline document is about to expire.
 - Improved software bug resolution process by 20 percent w.r.t 2013 release cycle.
 - Check out the code from **SVN**, merge the code after finishing up the implementation with the original one, remove conflicts if any, and finally check in to SVN.
- **Molina Health Care Medicaid Solution**, 'iPhone application for **MolinaHealthcare Inc.**'
 - Coordinated with product engineering team to develop new features to the doctors and their patients.
- **Branch correlation using data mining approach using python**
 - Used **ROSE compiler** that automatically instruments the given program to generate dynamic outcome

(T/F) along with static branch identifier (example: line number)

- The generated data was analyzed over multiple executions of the program to predict which conditional branches were likely to be correlated in the given program.

Employment & Work Experience

- **Assistant Engineer(IT)** **Mejia, W.B., India**
Damodar Valley Corporation (DVC) *Dec 2017 - present*
 - Led a team of 3 engineers for an official Inspection duty, resulting in a **33 percent reduction** in time and thereby increasing efficiency and making cost effective.
 - Handling more users and finishing all pending work-orders, thus resulting **10 percent increase** in processing user's pending files w.r.t FY 2017-2018
 - Documented process flow of **Enterprise Business Application(EBA)** for processing ad-hoc contracts and work orders, inspected and met deadlines in purchasing and storing of new computers.
- **I.T. Analyst** **Bangalore, India**
TATA Consultancy Services *Jan 2016 - Nov 2016*
 - Implemented login automation process that does automated processing using Python for the users into Apple's Server and will finally log them out successfully from the server launchpad.
- **Senior Systems Engineer** **Chennai, India**
Infosys Technologies Limited *Jan 2011 - July 2015*
 - Developed iPhone & iPad applications using objective-c. One of the applications *LexisAdvanceHD* currently live in AppleStore.

Academic Qualifications

- **West Bengal University of Technology (WBUT)** **WB, India**
B.Tech., Computer Science & Engg, Cumulative Grade Point/CPI: 8.49/10.0 *Aug2006 - July2010*
- **K.H.H.S., Kanchrapara** **WB, India**
Higher Secondary (12th Grade), Aggregate: 73% *July2004 - June2006*
- **K.H.H.S., Kanchrapara** **WB, India**
Secondary (10th Grade), Aggregate: 78% *May2003 - June2004*

Extra-curricular interests

- Completed Infosys Certification **Cocoa iDeveloper certification 201b : TENRAPDEVICS2011.**
- Gave a talk on '**Algorithmic Thinking**' at Infosys Bhubaneswar, India.

References

- **Mr. Akhil Kumar Das**, Assistant Professor (erstwhile head of the department), Faculty of Technology, Uttar Banga Krishi Viswavidyalaya (UBKV), Cooch Behar, India; Email: **dasakhi@gmail.com**
- **Mr. Avijit Roy**, Senior Package Solution Consultant, IBM India, Calcutta, India; Email: **avijroy8@in.ibm.com**
- **Mr. Debasis Mandal**, Assistant Professor (HoD), Computer Science & Engineering, IMPS College of Engineering; Email: **debimps07@gmail.com**