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**Objective:**

I am a graduate student pursuing my MS degree in Electrical and Computer Engineering with specific interest in Machine Learning and Data Mining at Temple University, Philadelphia. I have 3 years of experience working in leading software companies as software developer. I am looking for full-time position as a researcher or software developer in a company where I can learn and contribute in building innovative, real-world data-mining applications.

**Academic Background:****Masters' in Science (M.S)***August 2006 – Present***Temple University, Philadelphia, PA.**

Major: Electrical &amp; Computer Engineering

GPA: 4.0/4.0 (27 Credits completed)

Expected graduation date: Aug '08

**Bachelor of Engineering (B.E)***August 1999 – July 2003***From Bengal Engineering and Science University, India****(Formerly Bengal Engineering College (Deemed University), Shibpur)**

Major: Electronics &amp; Telecommunications Engineering

Overall Percentage: 84.4%

Ranked within top 1% of the graduated student batch and 2<sup>nd</sup> in the department.**Research Experience:****Research Assistant of Dr. Zoran Obradovic.***April '06 - Present**Department of Computer and Information Science**Temple University, Philadelphia, USA*

Working on Masters Thesis on Aerosol Optical Depth estimation using Machine Learning approach. Project funded by NSF. Devising a method for fast learning to predict the AOD using active learning methods from the information gathered by satellite-based sensors.

**Research Assistant of Dr. Shanti Prasad Maity.***Jan '02 – May '03**Department of Electronics and Telecommunication Engineering**Bengal Engineering and Science University, Shibpur, India.*

Devised a method for imperceptible data hiding inside a gray-scale image that used Genetic Algorithm as an optimization tool to reach an optimum point between invisibility of the hidden message and robustness of the hidden data.

**Summer Internship***Jun '02 – Sep '03**Machine Intelligence Unit,**Indian Statistical Institute. Kolkata, India.*

Studied different image segmentation methods like Thresholding, Region growing, Edge tracking etc. and verified the utility of different mathematical models used to describe the different features of a gray-scale image based on which the image can be segmented and classified into different categories.



## Publications:

1. Debasish Das, Vladan Radosavljevic, Slobodan Vucetic, Zoran Obradovic; "Reducing Need for Collocated Ground and Satellite based Observations in Statistical Aerosol Optical Depth Estimation". *Accepted into International Geoscience and Remote Sensing Symposium, 2008, Boston, MA.*

## Projects:

1. Devised a method for batch mode active learning for linear regression by Genetic Algorithm-based constrained maximization of uncertainty in regression parameters.
2. Project on tracking a moving object in a video using second order Kalman filtering for the Estimation Theory course.
3. Implementation of an algorithm related to moving object tracking in presence of varying illumination for the Image Processing course.
4. Project on Reliability of a k-out-of-n system for the Probability course.

## Relevant Coursework:

Data Mining, Machine Learning (Audited), Estimation Theory, Probability and Random Process, Engineering Analysis.

## Selected Work Experience

- 1) *July 2003—September 2004* TCG Software Services Pvt. Ltd. Kolkata, India

**Position:** Software Engineer

### Selected Projects:

*August 2003 – September 2004* COALNET – A multi-tier web-based J2EE application to manage all the business processes of Coal India Limited and all its subsidiaries.

- 2) *October 2004—July 2005* Tata Consultancy Services Ltd. Kolkata, India

**Position:** Asst. Systems Engineer

### Selected Projects:

*November 2004 – March 2005* ONLINE AFFILIATE TRACKING SYSTEM: An intranet-based reporting system to track the performances of the affiliates employed by client Citi Financial to advertise their products designed for different social segments.

- 3) *August 2005—July 2006* Pricewaterhouse Coopers Pvt. Ltd., Kolkata, India

**Position:** Consultant

### Selected Projects:

*Aug 2005- Dec'05* VEHICLE TRACKING & DATA ACQUISITION SYSTEM: This involved design and development of the fleet management solution. The solution will be developed on Oracle 10G platform using Java / J2EE.

*Mar 2006 - Jul 2006* CUSTOMER APPLICATION TRACKING SYSTEM: A web-based customer application tracking system with a multi-role approval option.

## Skill Summary:

1. **AI Tools:** MATLAB NN toolbox, Weka, Netlab.
2. **Programming Languages:** C, C++, Java, J2EE Technologies, MATLAB.
3. **Database:** Oracle9i/10g, PL/SQL.
4. **Operating Systems:** Windows9x/XP.
5. **Others:** Struts, Oracle Reports6i, Verilog HDL.

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**Professional Trainings Attended:**

1. Induction Training program at TCG software Services Pvt. Ltd. Which covered Basics of Object-oriented programming, C++, Java, J2EE, Oracle, XML and UML.
2. Integrated Quality Management System at TCS.
3. Group training on Oracle Application Integration and Advanced Queues.
4. Training on Oracle Reports and Forms at TCS.

**Teaching Experience:**

- 1) Worked as a TA in Basic Circuits Lab in summer '07. Responsibilities include Designing experiments, supervising lab sessions and grading lab reports.
- 2) Worked as a TA in fall '07 for *Signals and Systems* course. Responsibilities include conducting Recitation and Problem solving sessions and grading of MATLAB assignments.
- 3) Working as a TA in spring '08 for MATLAB course. Responsibilities include conducting Recitation and Problem solving sessions and grading of MATLAB assignments.

**Awards and Achievements:**

1. 1st Prize and 'Most socially relevant' award in the *Future of Computing* poster competition organized by CIS department of Temple University.
2. Received University Fellowship for the first year of Masters' studies at Temple University.
3. Prestigious Dean's Fellowship offered from Drexel University, Philadelphia. (Offer declined)
4. Job offers from leading software companies like Tata Consultancy Services, PricewaterHouse Coopers' and Infosys (Offer from Infosys declined).
5. Ranked within the top 1% of the state level engineering entrance exam (Joint Entrance Examination).
6. Ranked 13<sup>th</sup> in state level 12<sup>th</sup> standard examination among around half million examinees
7. Received district (1<sup>st</sup>) and state level medals for 3 consecutive years in Science Aptitude & Talent Search Test organized by *All India Science Teachers' Association*.

**References:**

[REDACTED]

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