

**KUMARVARDHANAM DAGA**  
Associate at Cognizant Analytics

**ACADEMIC QUALIFICATIONS**

Degree/Examination	Board/University	CGPA/Marks
5-yr Integrated Msc. in <i>Exploration Geophysics</i>	Indian Institute of Technology, Kharagpur	7.55 out of 10
Higher Secondary School	Central Board of Secondary Education	88.2%
Secondary School	Indian Certificate of Secondary Education	91.6%

- Recipient of the **prestigious** and **most coveted** Kishore Vaigyanik Protsahan Yojna (**KVPY**) scholarship, awarded to 50 out of a pool of 23,000 aspiring candidates, for demonstrating potential in future research work.
- Honorable mention** at Analyze This --- The **PAN-IIT Data Analysis** competition of **American Express**. **Single handedly** developed a predictor model based on linear regression using batch gradient descent to predict the top ten batsmen. Among 8 teams out of 4 IITS to receive this honor.

**Work Experience**

Organization	Duration	Work
Cognizant Analytics	June 2013 - Present	Offering data analytics driven consulting services to a major US-based Pharmaceutical Company. Tools used --- <b>SQL</b> , Excel.

**RESEARCH PROJECTS**

S.no	Objective	Institute	Duration	Conclusion
1.	To understand fractionation of the earth subsequent to a large meteoritic impact.	National Institute of Oceanography, Goa	Summer 2010	<b>Data analysis</b> using <b>EXCEL</b> , <b>WORD</b> , and visualization using <b>Adobe Illustrator</b>
2.	Comprehensive <b>investigation</b> of impact data. (Cont. of the above project)	National Institute of Oceanography, Goa	Summer 2011	Authored a <b>research paper</b> presented at PRL- Ahmedabad.
3.	To <b>analyze</b> if the learning difficulties of <b>rural children</b> could be removed using computer so as to make them self-reliant.	Isaiambalam School, Auroville, Pondicherry	Summer 2012	Worked with 100 village children, monitored their progress and <b>developed an educational database</b> to remove their learning difficulties.
4.	Compact 2D inversion of Gravity anomaly	IIT Kharagpur (Msc. Thesis project)	1 year	Received an excellent Grade and Authored a research paper to be presented at GEOS 2013, Phuket.

**RESEARCH PAPER**

**Modeling and inversion of gravity data - a potential approach for delineation of concealed chromite deposits: A case study from Tangarparha, Odisha, India.** Animesh Mandal\*, Kumarvardhanam Daga, W. K. Mohanty, and S. P. Sharma, Department of Geology and Geophysics, Indian Institute of Technology Kharagpur

**IT SKILLS**

- SQL**. Manage Data extraction, manipulation, joins, and other functions on the SQL server of Cognizant Analytics.
- MATLAB**. (Data Analysis, **Machine Learning Implementation**, Probabilistic Graphical Models implementations). Carried out extensive data analysis, model fitting using **neural networks**, **support vector machine (SVM)** algorithms.
- Fluent in interactive programming in **Python** using **Python SimpleGUI** (Interactive gamebuilding in python). Fluent in **C**.

**POSITIONS OF RESPONSIBILITY AT COLLEGE**

S.No.	Position	Society	Duration	Achievements
1.	<b>Governor</b>	English Technology Dramatics Society (ETDS), IIT KGP	2010-2011	1 among 4 out of a batch of 1000 students. <b>Inducted newcomers</b> into the society and introduced them to the finer nuances of dramatics. <b>Chief representative</b> of the English Dramatics team of IIT KGP at in as well as out station events. Responsible for generating funds, stage setups, costumes and other logistics. Directed several plays, including a <b>gold winning play</b> at NLS B'lore's <b>International</b> drama fest. <b>Role</b> -Leader
2.	<b>Captain</b>	English Dramatics Team, RK Hall- IIT KGP.	2011-2012	1 among 2 out of a batch of 500 students. <b>Led the team</b> in directing plays for inter-hall events and managing the cast, crew and taking care of logistics. <b>Role</b> -Leader
3.	<b>Captain</b>	Aquatics Team, RK Hall- IIT KGP.	2010-2012	1 out of a batch of 500 students. <b>Supervised the team's</b> training progress and responsible for managing the team. Held central talks with team captains. <b>Role</b> -Leader
4.	<b>Executive Member</b>	Society of Exploration Geophysicists (SEG), IIT KGP	2009-2012	Interviewed from a batch of 40 students. <b>Twice hosted</b> the annual symposium of the Department. Instrumental in taking crucial on-spot decisions during the symposium. <b>Role</b> - Management, Public Speaking
5.	<b>Student Member</b>	Entrepreneurship Cell- IIT KGP	2008-2009	<b>1 among 20 out of a batch of 1000 students</b> . Part of the core team involved in managing Entrepreneurship summit an event that promotes the spirit of Entrepreneurship. Was a part of the sponsorship team and was involved in contacting entrepreneurs across the industry. <b>Role</b> - Management, Guest Reception
6.	<b>Member</b>	Inter-IIT probable Water Polo Team.	2010-2011	Selected by the Aquatics Coach of the institute after a preliminary observation and test. <b>Role</b> - Training, Participation in out-station events.
7.	<b>Member</b>	KNUTS- Campus Radio Team. IIT KGP	2009-2010	Part of the first-ever Campus radio team. <b>Hosted movie reviews</b> . <b>Role</b> - Creative work, Management, Public Speaking
8.	<b>Member</b>	AIESEC- IIT KGP Chapter	2008-2009	Interacted with and received foreign as well as Indian interns in and outside KGP. <b>Role</b> - Management, Guest Reception.