Harsha Vardhan Reddy

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EDUCATION & SCHOLASTIC ACHIEVEMENTS

Programme/Examination	Institution	%/CGPA	Completion
Dual Degree in Mechanical Engineering (M. Tech. in Product Design)	Indian Institute of Technology Madras	8.2/10	2015
XII (A. P. Board)	Sri Chaitanya Junior College	93.5%	2010
X (A. P. Board)	Dr. KKR's Gowtham Concept School	85.3%	2008

- Awarded **certificate of merit** for being placed in **statewise top 1%** in National Standard examination in Chemistry (Olympiad)   2010

PROFESSIONAL EXPERIENCE

- **Business Analyst - American Express, Bangalore, India**   June 2015 – Present
  - Devise and execute strategies to drive customer spend while reducing credit losses for US consumer Charge and Credit cards
  - Perform longitudinal customer studies to glean actionable insights
  - Partner with compliance and technology teams to review and implement new strategies
  - Generate and monitor portfolio metrics to detect trends and anomalies
  - Awarded Analyst of the Quarter (Jan-Mar 2016) for delivering incremental billings leveraging merchant aggregator data
  - Winner of Innovision Big Data Hackathon for transforming the existing analytical process using platforms such as Spark
- **Summer Intern - Voith Turbo Pvt. Ltd., Hyderabad, India**   May 2013 – Jun 2013
  - Analyze the business process and documented the lifecycle of the variable-speed and geared hydraulic couplings.
  - Develop a tool to **predict the service business** of over **2700 couplings** installed in the past 41 years located in **India and Korea**.
- **Summer Intern - Caterpillar India Pvt. Ltd., Chennai, India**   May 2012 – Jul 2012
  - Develop a **calibration tool** to validate **combustion models** of Caterpillar engines based on integration of test data and simulation data.
  - Implement an **algorithm to identify** matching engine components and **reduced** the modelling **time by over 93%** for V16 engines.

SKILLS

Programming Languages	Web Programming	Software Frameworks
SQL, SAS, R, Python, Java	HTML5, CSS3, JavaScript	Android, Spark, VBA, MATLAB

COURSEWORK

- Advanced Data Structures and Algorithms
- Operations Management
- Mechatronic Systems
- Algorithms: Design and Analysis
- Product Reliability
- Signal Processing
- Computational Engineering
- Design Synthesis
- Optimization Methods

POSITIONS OF RESPONSIBILITY

- **Student Club Convener, Design Club IIT Madras**   Aug 2013 – Apr 2014
  - **Conducted** 3 hands-on workshops on **logo sketching**, introductory **Photoshop** and poster making for over **400 students**.
  - Organized and mentored an **on-the-spot poster competition** themed "Saving ourselves by saving the planet".
- **Managerial Team Member, National Service Scheme, IIT Madras**   Aug 2011 – Mar 2012
  - Headed the translation of over **300** hands-on science activity videos **(Arvind Gupta project)** in English into regional languages.
  - Worked with a team of 10 people to select and allocate resources to projects of over **400 students**.
- **Coordinator, Publicity, Saarang, IIT Madras**   Dec 2011 – Mar 2012
  - Coordinated a team of **30 volunteers** to handle **on-ground publicity** in various partner locations in Chennai.
  - Spearheaded the publicity efforts to invite students for the event; reached over **50 colleges** in Hyderabad.
- **Coordinator, Graphic Design, Shaastra, IIT Madras**   Aug 2011 – Nov 2011
  - Played a key role in the design of the main website (**over 6 million hits annually**) and other paraphernalia.
  - Designed numerous posters of technical events ranging from online games to math modelling.

AWARDS & EXTRA-CURRICULARS

Technical	**Winner**, PayPal Hackathon	2014
	- Developed a mobile shopping application leveraging social and location data; awarded a cash prize of INR 50,000	
	Winner, Cerner Hackathon	2015
	National Finalist, National Children's Science Congress	2005
	- Demonstrated a functional prototype to **recycle water using solar energy**; awarded a **gold medal**.	
Sports	Finished Standard Chartered **Mumbai Marathon (42 km)** in **4 hours 40 minutes**.	2014
	Finished **three timed full marathons** and **four timed half marathons**.	2012-2014
Volunteering	**Taught over 40 underprivileged students** in the govt. school, Velachery as a part of NSS.	2010
	Mentored over 150 freshmen as a part of Mitr (Guidance and counselling unit) team in Narmada hostel.	2012