PALASH GOYAL

B.Tech., Mathematics And Computing,
Indian Institute of Technology-Guwahati, India.

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CURRENT JOB :

- **MakeMyTrip India Pvt. Ltd.** : Data Scientist. **(Jan 2014-Till Date)**
  Tools – R, ShinyApps.

COMPUTING SKILLS :

Programming Languages : R, Java.
Tools : *ShinyApps*, MySQL.
Profiles : in.linkedin.com/in/palashgoyal1, github.com/palashgoyal1, rpubs.com/palashgoyal1

COURSERA : Data Science Specialization (Johns Hopkins University)

- R Programming
- Exploratory Data Analysis
- Regression Models
- The Data Scientist's Toolbox
- Reproducible Research
- Practical Machine Learning
- Getting and Cleaning Data
- Statistical Inference
- Developing Data Products
- Capstone Project: Natural Language Processing (NLP)
- Machine Learning (On-Going)

PREVIOUS JOBS :

- **QuantumGraph Solutions** : Business Analyst. **(July 2014-Jan 2014)**
  - Analyzing Facebook and Google Analytics advertising data for various clients.
  - Assessing Market conditions, Analyzing Campaign performance, Optimizing Bids, Budget Reallocation, Keyword Analysis.
  - Cohort Analysis, Models to improve Campaigns' Performance. Prediction models for Conversions, Spends.
  Tools – R, ShinyApps.

- **Oracle Financial Services Software** : Applications Developer. **(July 2012-July 2014)**
  Product Strategy and Architecture.
  - Experience : MySQL Cluster, Multitenant Architecture, Advance Queue, Partitioning, and Database Sharding.
  - Projects : POC on 'Process Orchestration' : Enabling the bankers to customize the processes-and-validations flow happening during any banking transaction. The relevant code units of processes and validations were called on success of the desired events, and multiple checks were put on the calls.
  - Multitenant Architecture : Cloning a Pluggable Database, Adoption of a non-Container Database as a Pluggable Database.
  - Partitioning : POC on partitioning of bank's database on the basis of date, account numbers, banks, card type, etc., so as to improve the response time of transactions.
  - Training : Java, JSP, JSON, JQuery. Java Application on Flight Tickets Booking.

PROJECTS AND COURSES UNDERTAKEN :

***BACHELOR THESIS PROJECT* :**

- **Applications of Cutting Planes in Stochastic Integer Programs** **(Aug 2011-Apr 2012)**
  Guide : Prof. Sriparna Bandopadhyay, Department of Mathematics, **IIT- G**uwahati, India.
  - Cutting planes generation through the **L-Shaped method** for the Two-Stage Stochastic Programming Problems to result in integer solutions. Implementation of the L-Shaped method, with feasibility and optimality cuts, on the Production Problem.
  - Generating cutting planes using Gomory's algorithm to obtain integer solutions of Linear Programming Problems.
  Language used – MATLAB.

***SUMMER INTERNSHIPS* :**

- **Counting and Generating Uniformly the Elements of the Special Linear Group** **(May 2011-July 2011)**
  Guide : Prof. Dirk P. Kroese, Department of Mathematics, **The University of Queensland**, Brisbane, Australia.
  - Developed an algorithm to check the uniform distribution of the elements of the Special Linear Group(SLG).
  - Implemented the **Monte-Carlo** approach to count the total number of elements in a SLG.
  Languages used – MATLAB, MuPAD, GAP.

- **Derivatives, Fundamental And Technical Analysis** **(June 2010-July 2010)**
  Guide : Mr. Kalpesh Parikh, **Sharekhan Ltd.**, Mumbai, India.
  - Estimated the deviation between the theoretical and actual Option Prices and the various market factors responsible for it.
  - Performed the Fundamental Analysis for Jindal Steel and Power; and Technical Analysis for L&T.

***ACADEMIC PROJECTS*:**

- **Statistical Analysis of Financial Data** **(Jan 2011-April 2011)**
  Guide : Dr. Arabin Kumar Dey, Department of Mathematics, **IIT- G**uwahati, India.
  - Time series analysis of financial data sets, using statistical tools and models, and future predictions.

- **Implementation of Data Transfer Protocol** **(Jan 2011-April 2011)**
  Guide : Dr. T. Venkatesh, Department of Computer Science and Engineering, **IIT- G**uwahati, India.
  - Implemented a reliable data transfer protocol, sending and receiving transport level, for Alternating-Bit-Protocol version and the Go-Back-N version.

ACADEMIC COURSES - Finance:

- **Statistical Analysis of Financial Data**
- **Stochastic Calculus for Finance**
- **Financial Risk Management and Modeling**
- **Portfolio Theory and Performance Analysis**
- **Monte Carlo Simulation**

***COURSERA*:**

- Competitive Strategy

***ACADEMIC COURSES – Computer Science*:**

- Database Management System

- Design and Analysis of Algorithms

ACADEMIC BACKGROUND :

Class(XII), CBSE	[2008]	Class(X), CBSE	[2006]
Bonie-Foi Co-ed School , Bhopal	Aggregate:83.0	Campion School , Bhopal	Aggregate:87.8
B.Tech., Mathematics And Computing	[2008-2012]		
Indian Institute of Technology, Guwahati	CGPI : 6.77		

ACHIEVEMENTS :

- Secured rank among top 0.5% students who appeared in **IIT-JEE 2008** with AIR: 2616.
- Scored 100% in Mathematics at Hr. Sec. Level, and made count among top 0.1% of successful candidates.

SKILLS AND HOBBIES :

- Sketching.
- Basketball and Hockey.
- Freelance work : www.vrindavangarden.com/, www.goodwillyarns.com/

EXTRA CURRICULAR ACTIVITIES :

Techniche (Annual Technical Festival of IIT-G)

- Organized *BrainChild* - Business Plan Competition in Techniche 2010.
- Participated in Semi-Autonomous event in Techniche'09.
- Active participation in Management events 'Strategm' and 'Prayatna' in Techniche'10.

Sports

- Secured Second position in Hockey, in Spardha'09, the Inter-Hostel Sports Meet.
- Active member of National Sports Organization Scheme in Hockey at IIT Guwahati.

Clubs

- Entrepreneur Development Cell: Participation in B-Plan Competition'08 and attended Entrepreneurial Summit'11.
- Fine Arts Club : Painting and Sketching Competitions.

Social Entrepreneurship

- Oasis, Bhopal (Social Welfare Association).

REFERENCES :

- Prof. Dirk P. Kroese,
  Australian Professorial Fellow,
  The University of Queensland, Australia.
  kroese@maths.uq.edu.au
- Prof. Sriparna Bandopadhyay,
  Professor, IIT-Guwahati, India.
  sriparna@iitg.ernet.in