DEBLINA MONDAL

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Education

Year	Degree	Institution	CGPA/Percentage
2013-2015	M.Sc in Statistics	IIT Kanpur	7.8/10
2010 - 2013	B.Sc in Statistics	Calcutta University(Maulana Azad College)	73.12%
2010	Intermediate: WBCHSE	Baghbazar Multipurpose Girls' High School	78.6%
2008	High School: WBBSE	RKSM Sister Nivedita Girls' School	88%

Work Experience

Associate Statistician   **Novartis Healthcare Pvt. Limited, Hyderabad**   (July '15 - Present)

- Delivering **statistical analytic solutions** for phase III-IV clinical trials by executing RAPs,TLFs
- Ensuring production of **statistical reporting deliverables,** supporting decision making by CTT(clinical trial team)/ Medical team/ Customer, developing protocol and reviewing CRF
- Responsible for transcribing RAPs into computational solutions for statistical programmer to implement phase III-IV clinical trials.
- Ensuring documents, specifications, programs, macros are consistent and comply with Clinical Science Unit/project/company standards.

Academic Projects

Relation between expenditure and revenue earned by West Bengal Government through taxation.

- Studied the dependence of **expenses incurred on various types of taxes** collected by West Bengal Government.
- Developed a **Multiple Linear Regression** model getting **sales tax** as the most significant contributor to the **Expenditure** at level of significance 0.05 by **variable selection method.**

Relationship of Amount of Vapor generated with Dispensed gasoline and Initial condition of the tank

- Deduced relationship of vapor generated with tank temperature, gasoline temperature, vapor pressure in tank and vapor pressure of gasoline.
- Developed a **Linear Regression** model using **AIC, BIC** and **Cross Validation** approach to find the best fit for the given data set.

Time Series Analysis of S&P 500 Index

- Developed and tested an **ARIMA** model for **S&P 500 Index price** using historical closing price for last 40 years and analysed stationarity of series
- Used the model for **analysing trend and forecasting** Index price for next 10 days getting an accuracy of 90% at 95% level of confidence

Effect of Extra-Curricular Activities on Study

- Determined impact of various extracurricular activities on study of students from different streams of IIT using **Two-Stage Random Sampling and Hypothesis Testing.**
- Developed a **linear model** between time spent in Extracurricular activities and CPI.

Face Recognition using Eigenfaces

- Used **Principle Component Analysis** and **K-Nearest Neighbour algorithm** to classify faces in given data set and find 10 closest faces in dataset.
- Used the model to create an **attendance system** by using multiple face images of every student in a class with an accuracy of 95%

Technical Skills

SAS, R, C, Minitab, Microsoft Excel

Extra Curricular

Prayas, **IIT Kanpur**	• Created **customized study plans** and **monitored progress** for 3 JEE aspirants and improving their rank by **20%** • Single handedly developed test series and concept notes for **30%** of JEE and **20 %** of AIEEE curriculum
Taekwondo Club, **IIT Kanpur**	• Actively associated with club for 1 year. • Performed with a team of about 50 members in Independence Day demonstration
Dramatics, Bengali Assoc.	• Performed in a drama "Chitrangada" organized by Bengali Association ,IIT Kanpur