

EDUCATION

Program	Institution	%/CGPA	Year
M Tech in IME	Indian Institute of Technology, Kanpur	9.52 (2 nd sem)	2021-present
B Tech in ME	Indian Institute of Technology, Indore	8.0	2019
XII (HSC Maharashtra)	S.B.E.S. College of Science, Aurangabad	88.31	2015
X (SSC Maharashtra)	Maharashtra Public School, Aurangabad	93.45	2013

INTERNSHIP

Organization: **Axtria Ingenious Insights** | Role: Analyst | Department: **Business Intelligence Management**

- Worked on a sample dataset to implement a variety of SQL concepts including Clauses, Joins, Subqueries, Views, Common Table Expressions, and Ranking.
- Studied Data warehouse concepts, data warehouse architectures, Fact-dimensions links, Star and Snowflake schemas, and Data Marts.
- Explored Big Data concepts, Apache Hadoop's architecture, HDFS, and MapReduce algorithm, and supporting tools like Hive, Impala, their architecture, and working.
- Studied RDDs, RDD transformations, RDD actions, Paired RDDs, DataFrames, SparkSQL.
- Implemented basic ETL operations on a sample dataset using the Pyspark shell of Apache Spark.

PUBLICATIONS

- Rohit Kothari, Dattaraj Vaidya, Vinay Shelke. **Experimental investigation of thermal performance of nano-enhanced Phase Change Materials for thermal management of electronic components.**
[ASME POWER conference 2019]

ACADEMIC PROJECTS

Applied Machine Learning	<p>Sentiment Analysis on Twitter Data of UP Election 2022</p> <ul style="list-style-type: none"> ➤ Collected over 300k tweets using snsrape with relevant hashtags for UP Election. ➤ Identified English tweets using langid and labelled them using Vader. ➤ Performed EDA, stop word removal, tokenization, lemmatization, and word-embedding with 300 dimensions after encoding and padding. ➤ Trained a 3-layer LSTM model to classify the tweet sentiments into 3 categories. ➤ Validated them Vader labels with an accuracy of 86.4%.
Financial Engineering	<p>Optimal efficient portfolio</p> <ul style="list-style-type: none"> ➤ Collected historical data for 21 NIFTY50 firms over a five-year period and assessed correlation, expected return and risk for each. ➤ Selected 10 companies for our portfolio on the basis of the Correlation matrix, $E(r)/\sigma$ ratio, and diversification. ➤ Constructed the Portfolio Frontier and Capital Allocation line to determine the proportion of investments in chosen firms corresponding to the maximum Sharpe Ratio.
Marketing Research	<p>Market research project on the low market penetration of WhatsApp Pay in India</p> <ul style="list-style-type: none"> ➤ Formulated Management Decision Problems & Market Research problems, Research Questions, and Hypotheses. ➤ Designed an online survey based on 4Ps (product, price, place, promotion) using Likert Scale techniques. ➤ Verified hypotheses using the One Sample t-test in SPSS on the collected dataset.

Statistical Modelling for Business Analytics

Murder Rate Analysis

- Analyzed the effect of executions on murders committed from a dataset with 30 states (entities) and 3 years(periods).
- Performed pooled regression, regression with time fixed and entity fixed effects to overcome omitted variable bias.
- Obtained an R2 score of 0.935 for panel data regression with both time and entity fixed effect.

Statistical Modelling for Business Analytics

Big Mart sales analysis

- Analyzed dataset of over 8500 records with 16 features, to find out those which drive the sales predominantly.
- Used **log** transformation on the dependent variable to overcome **heteroscedasticity**.
- Built multiple regression models and selected the best one using the principle of **Occam's Razor**.

SELF PROJECTS

Sales data analysis of a company:

(2021)

1. Various parameters corresponding to the highest sales are found using data analysis.
2. The analysis can be used to formulate a strategy for increasing sales.

COURSE WORK (M Tech)

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|--|-----------------------------|
| ➤ Applied Machine Learning | ➤ Financial Engineering |
| ➤ Statistical Modelling for Business Analytics | ➤ Marketing Research |
| ➤ Probability and Statistics | ➤ Introduction to computing |

TECHNICAL SKILLS

- | | |
|------------|-----------------|
| ➤ Python* | ➤ MS PowerPoint |
| ➤ SQL* | ➤ Java* |
| ➤ Tableau | ➤ PowerBI* |
| ➤ MS Excel | ➤ SPSS* |

COURSE CERTIFICATIONS

- | | |
|--|---|
| ➤ Machine Learning with Python | ➤ Time Series Analysis Stock Market Prediction Python |
| ➤ SQL for Data Science | ➤ Introduction to Big Data and Hadoop |
| ➤ Introduction to Deep Learning & Neural Networks with Keras | ➤ Finance & Quantitative Modeling for Analysts (Specialization) |

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- AIR 3415 in JEE Advanced [97.72 percentile] (2015)
- MTSE (Maharashtra Talent Search Exam) Scholar (2012-13)
- MTSE (Math Talent Search Exam) Scholar (2009,2010,2011)
- Secured 23rd Rank in G.C.C. District Level Chess Competition, Aurangabad (2009)

POSITIONS OF RESPONSIBILITIES

- **Senior Placement Coordinator**, IME, IIT Kanpur (June 2022-Present)
Currently working with a team for coordinating placement of the IME MTech Y21 batch.
Guiding Junior members in conducting summer internship drive for Y22 batch.
- **Junior Placement Coordinator**, IME, IIT Kanpur (July 2021-May 2022)
Worked with a team of 4 members, and achieved 100% summer internship placement for IME MTech Y21 batch.

*: Present / Under Progress