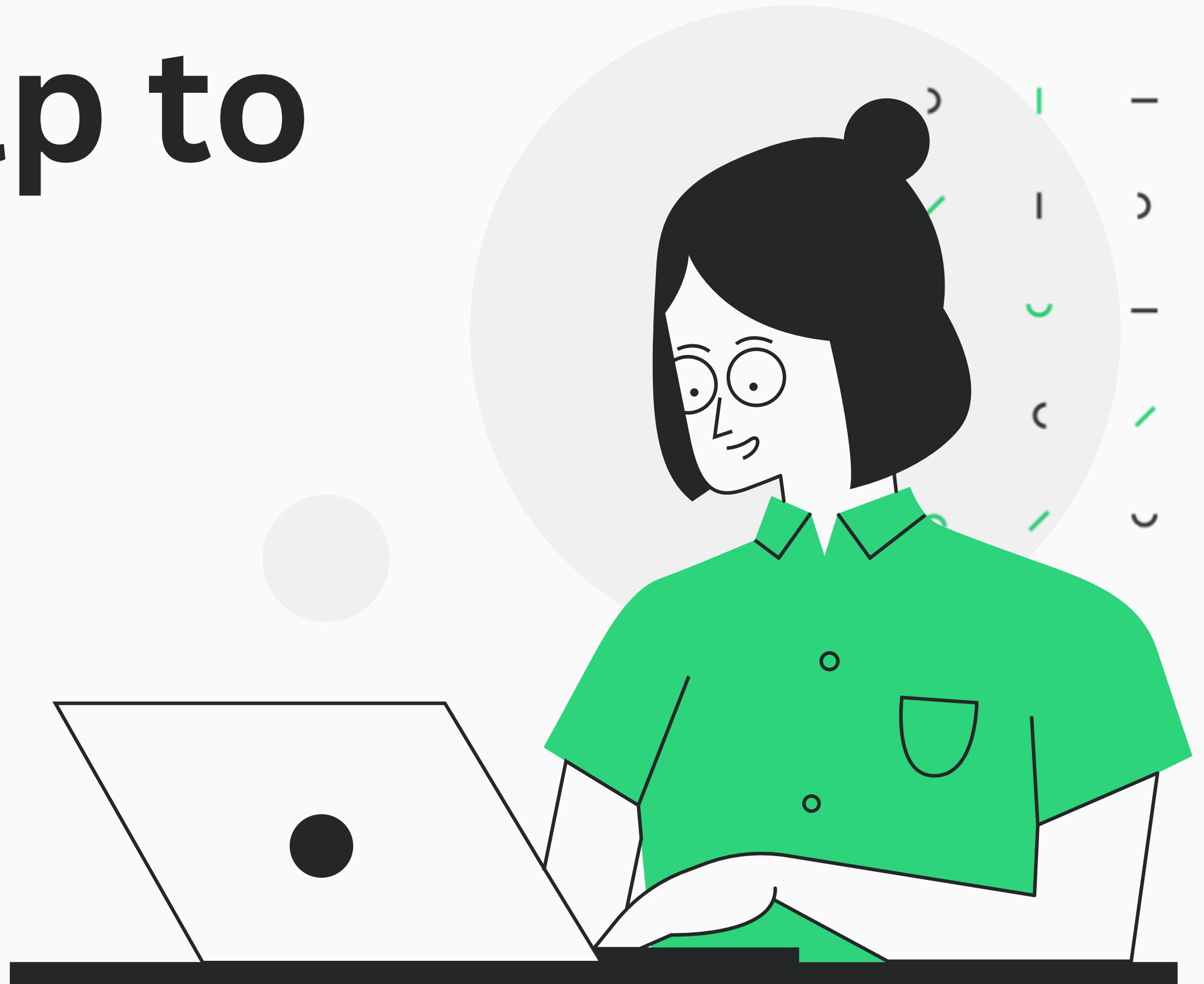


Roadmap to Analyst



PRESENTED BY METSOC

01



WHO IS AN ANALYST

- Professional who examines, interprets, and processes data to help organizations make data-driven decisions.
- Filter out the correct information.
- Study and interpret the data to find patterns and insights.
- Present your findings to the stakeholders using reports and dashboards.

Various Analyst Roles in Industry

Category	Data Analyst	Business Analyst	Product Analyst	Data Scientist
Focus	Extracting insights from structured data	Understanding business needs & improving processes	Analyzing user behavior & product performance	Predictive modeling & advanced analytics
Skills	ML, SQL, Excel, Python, Tableau/Power BI	SQL, Excel, Business Acumen, Stakeholder Communication	SQL, A/B Testing, Google Analytics, Tableau	Python, Machine Learning, Deep Learning, Big Data

Resources

- [ANALYST PLACEMENT KIT](#)
- [BIZ CLUB](#)
- [LIST OF COMPANIES](#)

Timeline

JAN-MARCH

MAY- JULY

OCT-NOV

Hurray 🎉

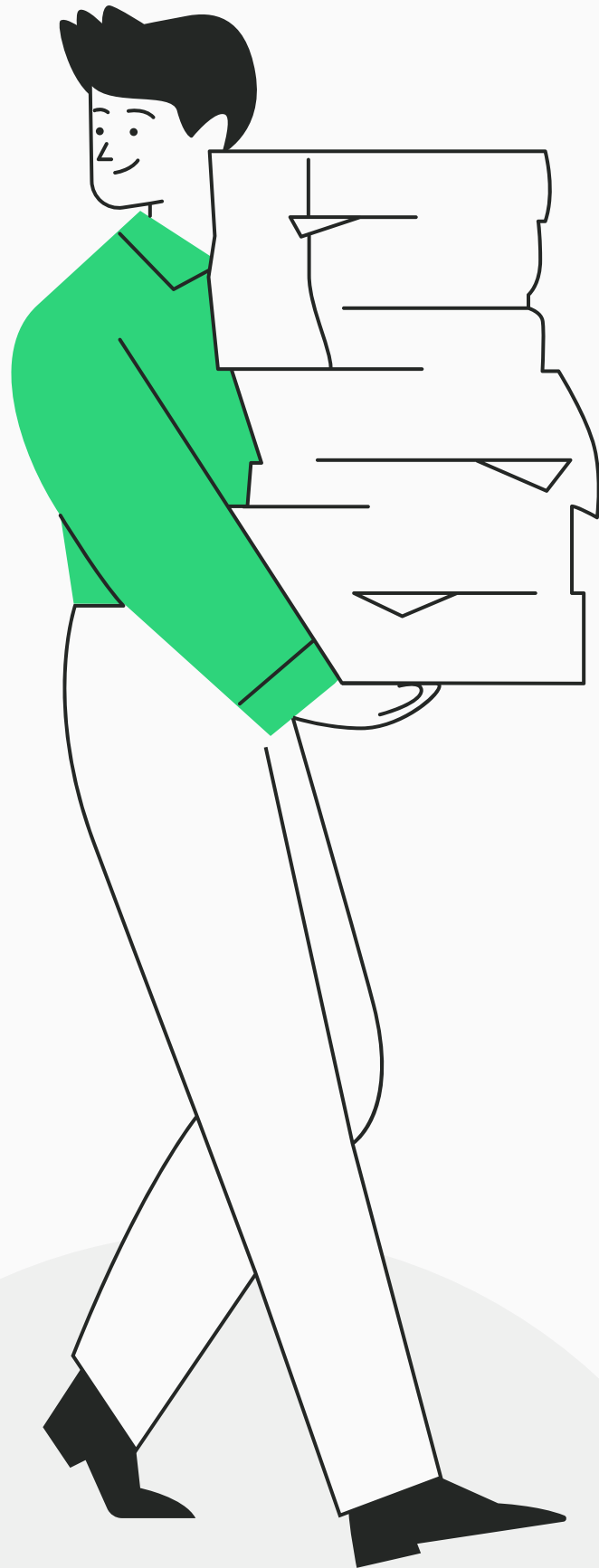
05

APRIL-MAY

AUGUST-SEPT

Resume

06



ACADEMIC PROFILE			
Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Metallurgical Engineering IIT (BHU), Varanasi	9.10	2025
CBSE (XII)		92.80	2020
CBSE (X)		95.80	2018
SKILLS			
<ul style="list-style-type: none">• Programing Languages : Python, C++, HTML, SQL, Javascript• Skills : Data Science, Machine Learning, Frontend Development, Data Structures and Algorithm, Statistics, Excel			
INTERNSHIP/TRAINING			
Business Analyst - My Analytics School		May 2024 - Jul 2024	
MAS is an Ed-Tech Start-up, empowering students for analytics and data science placements			
<ul style="list-style-type: none">• Led primary and secondary research for MAS, conducting surveys and interviews to guide strategic decisions.• Performed SWOT analysis and compared 15 competitors across 30 parameters, deriving actionable insights.• Visualized market dynamics using Tableau from competitor analysis, aiding in strategic growth initiatives.• Developed 2 MVP solutions using data insights, boosting customer acquisition by 8% and revenue by 5%.			
Frontend Development Intern - Soulvoyage		May 2023 -Jul 2023	
Soulvoyage is an AI-driven journaling platform dedicated to mental wellness.			
<ul style="list-style-type: none">• Resolved critical login issues using React, boosting conversion rate by 18% and enhancing user acquisition.• Developed and integrated landing page from Figma designs, leveraging modern CSS, reducing bounce rate by 9%.• Researched UI trends and integrated front-end architecture with RESTful APIs, improving customer retention.			
PROJECTS			
X-ray Diffraction simulator			
Undergraduate project under Associate Professor Dr. Joysurya Basu			
<ul style="list-style-type: none">• Developed an XRD simulator in Python for real-time analysis, boosting research capabilities in metallurgy by 30%.• Implemented graph manipulation and overlays, achieving 91% accuracy in identifying elements through comparison.• Spearheaded next phase to integrate ML for unknown element prediction, enhancing material identification accuracy.			
StarBucks Customer Segmentation			
<ul style="list-style-type: none">• Processed 3 datasets with 300k+ entries, merging as needed, and applying PCA for dimensionality reduction.• Employed K-Means Clustering on 17,000 customers, selecting the optimal number of clusters using Silhouette score and Inertia/SSE. Inferred primary demographic traits for each cluster based on member characteristics.• Used t-SNE for cluster analysis to identify the best approach for delivering promotional offers to customers.			
Credit Card Fraud Detection			
<ul style="list-style-type: none">• Performed EDA, univariate/bivariate analysis, data visualization, and processing on a highly imbalanced dataset.• Utilized Machine Learning algorithms such as K-Nearest Neighbours, Logistic Regression and Support Vector Machines. Performed Hyperparameter Optimization using Grid Search thus achieving classification recall - 94%.• Evaluated and compared model performances on the basis of F1 Scores, Confusion Matrix and ROC Curve.			
POSITION OF RESPONSIBILITY			
Member of Hostel Affairs and General Welfare Committee, Students' Parliament		April 2023 - Present	
<ul style="list-style-type: none">• Led data-driven initiatives using feedback from 6k residents across 17 hostels to implement targeted solutions.• Managed a 50-member committee to streamline data management and oversee the elections for fair representation.			
Under Secretary-General, IITBHU Model United Nations 2023		Oct 2022 - Feb 2023	
<ul style="list-style-type: none">• Led the fundraising initiative for the conference expenses and pitched 250+ local and online vendors.• Bagged in 20+ sponsors like Union Bank, The Clarke's, Red FM etc. and planned the deliverables distribution.			
HONOURS AND ACHIEVEMENTS			
<ul style="list-style-type: none">• 1st position in the Spardha'22 National Cycling Championship by covering 438 km in 24hrs.• Achieved a state rank of 179 in Kerala Engineering Entrance Examination 2021.• Secured into the merit list of top 20 scholars at national level in Ambuja Scholarship Scheme.			

ABHAY CHAUHAN			
ACADEMIC PROFILE			
Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech CBSE (XII) ICSE (X)	Metallurgical Engineering IIT (BHU), Varanasi	8.53	2025
SKILLS			
Skills: Python, C++, SQL, Machine Learning, Deep Learning, NLP, Probability, Statistics Tools: Numpy, Pandas, Scikit-learn, Matplotlib, Tensorflow, Keras, MS Excel, Tableau, Jupyter Notebook Interest: Data Analytics, Data Science, Data Structures and Algorithms, Open-source			
INTERNSHIP/TRAINING			
SUMMER INTERN AT JINDAL STEEL AND POWER LIMITED(JSPL)			May'24 - July'24
<i>Developed an ML model to optimise current operations and CO2 emission reduction.</i>			
<ul style="list-style-type: none">• Applied data preprocessing techniques, including handling missing values, outlier detection, and feature engineering, on 3+ years of Blast Furnace data, ensuring data quality and enhancing model performance.• Built a SVM, Random Forest model with 71.3% accuracy, achieving a 10.3% reduction in CO2 emissions.• Enhanced model accuracy by 15% through GridSearchCV, using Standard Scaler and Correlation analysis to identify key emission factors, driving sustainability and innovation			
PROJECTS			
TIME SERIES FORECASTING OF STOCK MARKET			
<ul style="list-style-type: none">• Performed in-depth EDA of stock market data and visualized the per day closing price of the stock.• Applied statistical techniques like Hypothesis, Dicky-Fuller test, and ACF/PACF plots to evaluate data.• Checked the stationarity and identified the nature of the data using adfuller test and null hypothesis.• Implemented Time Series Analysis using ARIMA around 2.5% MAPE implies the model is about 97.5% accurate.• Built a 1D CNN-LSTM model to predict the stock price with MSE loss and achieved an R-square of 0.67.			
REDDIT POST ANALYSIS AND MODERATION CLASSIFIER			
<ul style="list-style-type: none">• Performed Exploratory Data Analysis (EDA) on Reddit posts using Pandas and SQL with SELECT, UPDATE, AGGREGATE functions for efficient data manipulation, sorting, and filtering.• Analysed correlation in dataset and derived insights like worst users, trend in post rating and post deletion.• Pre-processed the data using imputation, stemming, stop word removal, tokenization and TFIDF.• Built a Decision Tree, Random Forest, SVM to classify whether the post should be deleted with an accuracy of 76%.			
CERTIFIED COURSES			
<ul style="list-style-type: none">• Summer Analytics Course (IIT Guwahati): Focused on <i>Python Programming, Machine Learning Algorithms, Data Preprocessing, Exploratory Data Analysis, Predictive Modelling</i>.• Google Analytics Course: Learned <i>Web Traffic Analysis, Goal Tracking, and Conversion Rate Optimization</i> using Google Analytics tools.			
POSITION OF RESPONSIBILITY			
CONVENER, YURI'S NIGHT'24, IIT BHU			Jan'24 - April'24
<ul style="list-style-type: none">• Conducted and published more than 10+ events, workshops, seminars based on astronomy.• Led a team of 40+ members organised and managed events with more than 700 participants.			
CONTENT HEAD, ASTRONOMY CLUB, IIT BHU			July'23 - April'24
<ul style="list-style-type: none">• Led a multidisciplinary team to improve collaboration and content quality, boosting the club's online presence.• Worked with the design team to create impactful content for RedShift Magazine, reaching over 5,000 views across Indian institutes.			
HONOURS AND ACHIEVEMENTS			
<ul style="list-style-type: none">• Won 2nd position in team event of CosmoMath Challenge, NSSC out of 350+ teams.• Got in top 10 percentile of six-long week course on Summer Analytics conducted by IIT Guwahati.• Participated in CodePeak'22 conducted by NJACK and Coding Club, contributed in Open Source Softwares.			
E: abhay.chauhan.iitbhu@gmail.com			



Our Placement Experience

MOST IMPORTANT ONE

(Elaborated on in the session).

07



Thank You
All The Best



08

Contact

09



SANSKAR MAHATO
Accordion



ABHAY PATEL
Aspect Ratio



ABHAY CHAUHAN
Tiger Analytics



ANANT AGARWAL
Axtria



JISHNU PN
Aspect Ratio



NITISH KUMAR
Axtria