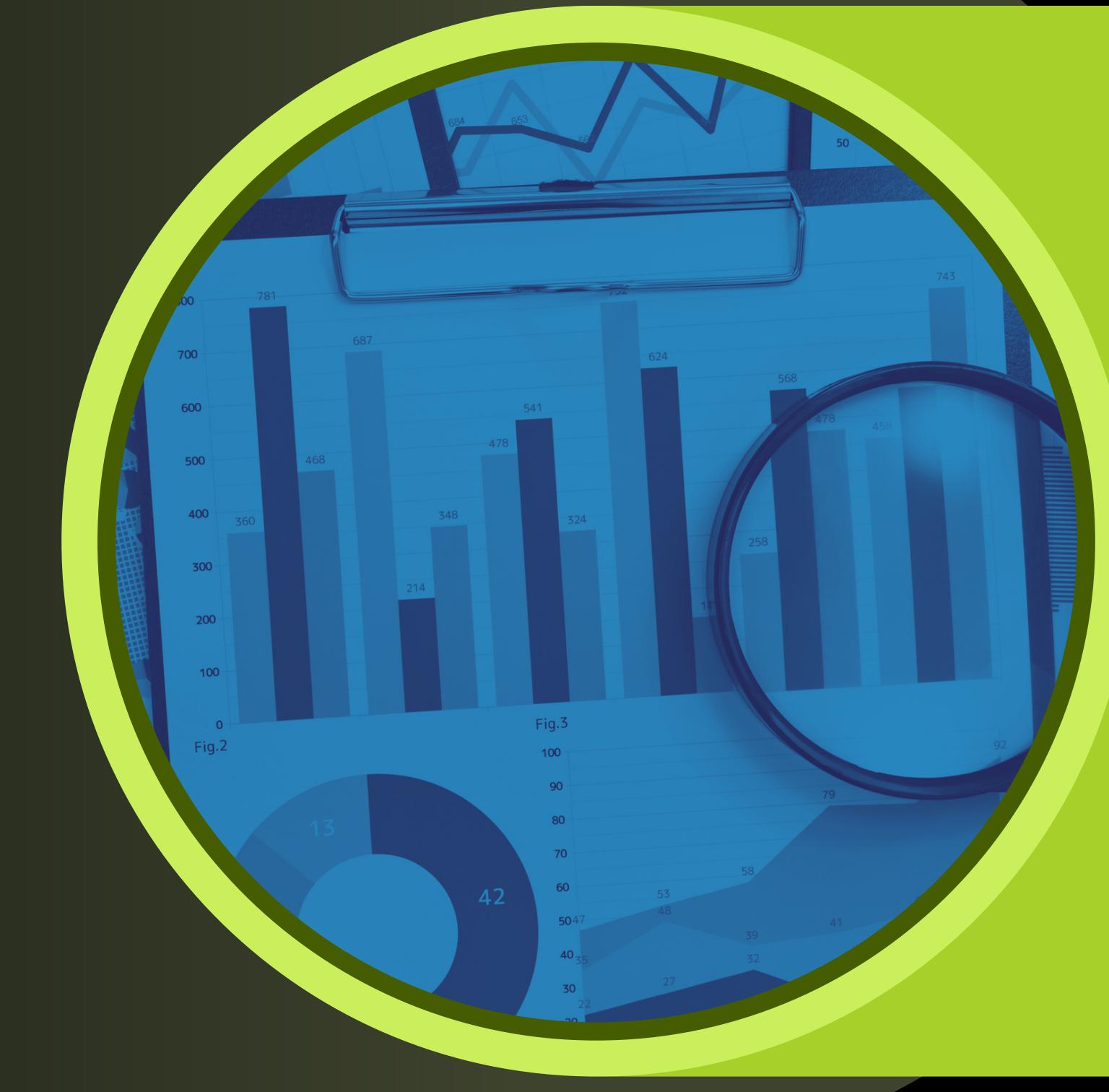




:SALEM'S I.T.

Fostering Talent



WELCOME MESSSAGE

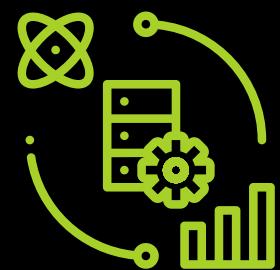
Our institute is dedicated to transforming students' careers and empowering them with the skills needed to excel. With our comprehensive programs, experienced faculty, and cutting-edge resources, we offer a learning environment that fosters growth and success. Additionally, we provide robust placement support, connecting students with exciting career opportunities in the industry. Get ready to embark on a journey of knowledge, skill development, and career transformation. Welcome to a world of endless possibilities!

ABOUT US



At our Institute, we are driven by a passion for excellence in education. With a commitment to delivering industry-relevant programs, we empower individuals to unlock their full potential in the dynamic field of Technology. Our institute boasts a team of dedicated faculty members who bring a wealth of expertise and real-world experience to the classroom. We foster a collaborative and innovative learning environment, equipping students with the practical skills and theoretical knowledge needed to tackle complex data challenges. Join us on this transformative journey, where we nurture talent, fuel curiosity, and shape the future of technology.

OUR TOP COURSES



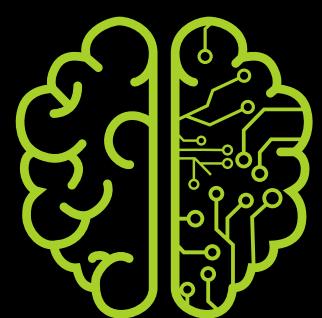
DATA SCIENCE

Most In-demand skill of 21st century



DATA ANALYSIS

One of the highest-paying job in the current market

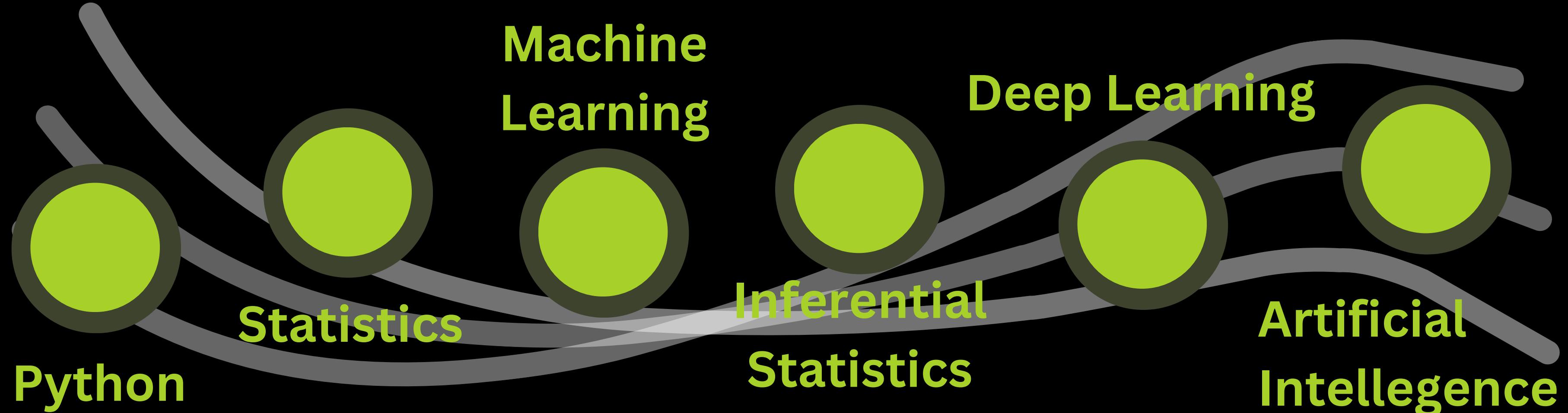


ARTIFICIAL INTELLIGENCE

Emerging Technologies



LEARNING JOURNEY



PROGRAM HIGHLIGHTS

1. Industry-Relevant Curriculum: Our program offers an up-to-date curriculum designed with input from industry experts, equipping students with the latest data science techniques and technologies.
2. Hands-on Projects and Internships: Students gain practical experience through real-world projects and internships, ensuring they are well-prepared for the demands of the industry upon graduation.
3. Expert Faculty: Our experienced data scientists provide personalized guidance and mentorship, nurturing students' skills and knowledge in a supportive learning environment.
4. State-of-the-Art Facilities: Salems I.T. boasts cutting-edge facilities, including dedicated data labs with industry-standard tools and software, enhancing the learning experience.
5. Career Services and Placement Support: We provide comprehensive career services, including resume building, interview preparation, and placement assistance, ensuring students have a smooth transition into the job market.
6. Prestigious Certification: Upon successful completion of the 6-month program, students receive a prestigious data science certificate, recognized and respected by employers.
7. Endless Career Opportunities: Data science professionals are in high demand, offering students vast career opportunities and high earning potential across various industries.

PYTHON

1. Proficiency in using Python's built-in data structures such as lists, dictionaries, tuples, and sets for efficient data manipulation.
2. Ability to leverage NumPy, a powerful library for numerical computing, to perform array operations, mathematical computations, and statistical analysis.
3. Skill in manipulating and transforming arrays using NumPy's functions for reshaping, slicing, indexing, and merging.
4. Competence in handling missing data and performing data cleaning tasks using Python's core functionalities.
5. Mastery of pandas, a versatile library for data manipulation and analysis, including data indexing, merging, grouping, and pivoting.
6. Proficiency in data aggregation, summarization, and filtering using pandas' DataFrame and Series objects.
7. Ability to apply various data transformation techniques, such as normalization, scaling, and encoding, to prepare data for analysis.
8. Understanding of exploratory data analysis (EDA) techniques using Python, including summary statistics, data visualization, and correlation analysis.
9. Skill in visualizing data using Python's core libraries, such as Matplotlib and Seaborn, for creating plots, histograms, scatter plots, and heatmaps.
10. Competence in customizing and styling data visualizations to effectively communicate insights and patterns in the data.
11. Ability to create interactive visualizations and dashboards using Python libraries like Plotly and Bokeh.
12. Proficiency in working with time series data and performing time-based analysis using Python.
13. Mastery of advanced array manipulation techniques, such as broadcasting, vectorization, and masking, using Python and NumPy.
14. Understanding of advanced indexing and querying techniques for efficient data extraction and filtering.

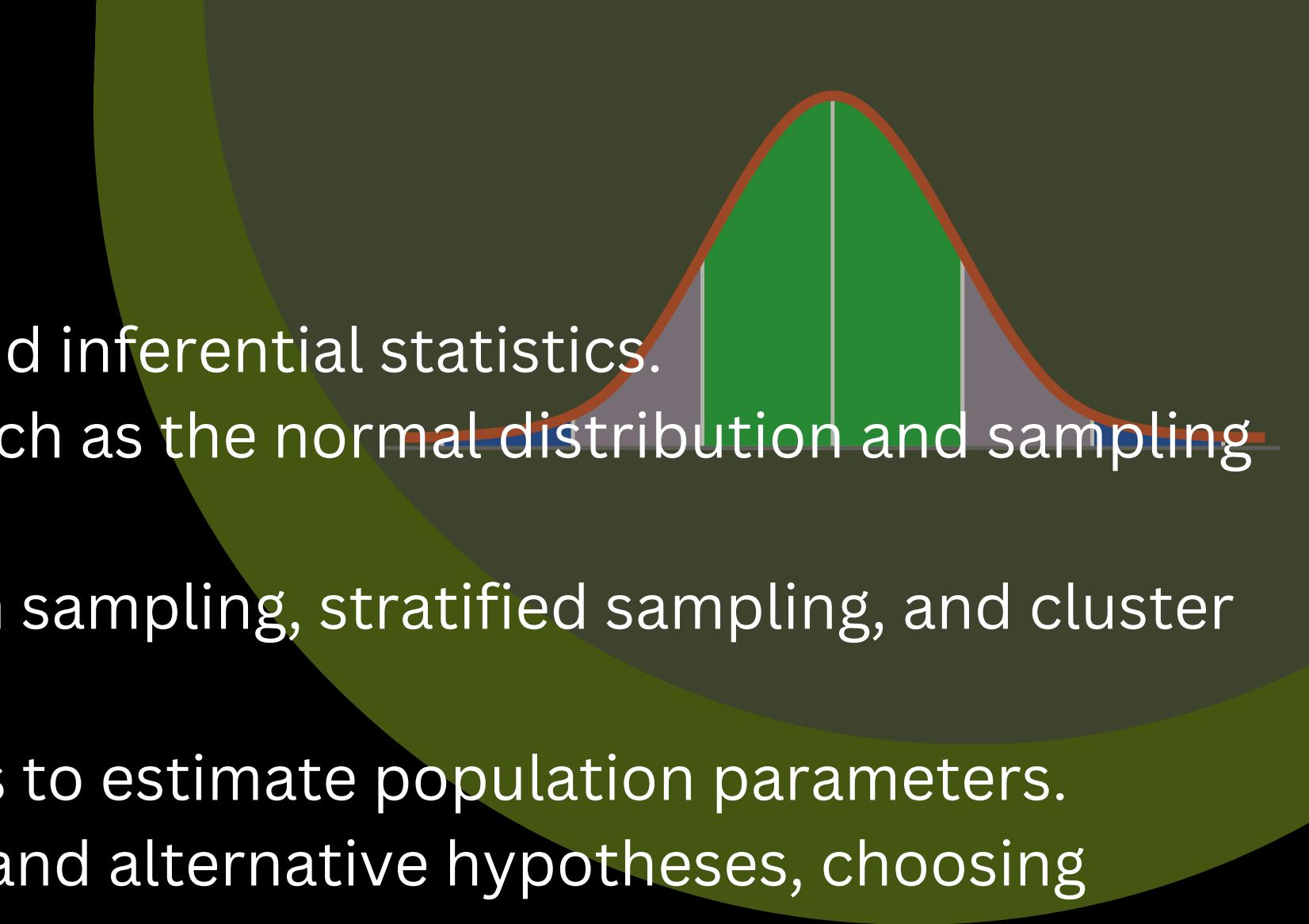
BASIC STATISTICS

1. Understanding the fundamentals of descriptive statistics and its role in data science.
2. Mastery of measures of central tendency, such as mean, median, and mode, to summarize the central value of a dataset.
3. Proficiency in measures of dispersion, such as range, variance, and standard deviation, to quantify the spread of data points.
4. Ability to interpret and analyze quartiles, percentiles, and interquartile range for understanding data distribution and outliers.
5. Competence in calculating and interpreting correlation coefficients to measure the relationship between variables.
6. Skill in constructing and interpreting frequency distributions, histograms, and box plots to visualize and summarize data.
7. Understanding of probability distributions, such as normal distribution, and their significance in data analysis.
8. Proficiency in calculating and interpreting probability, including conditional probability and Bayes' theorem.
9. Mastery of exploratory data analysis techniques, including summary statistics, scatter plots, and bar charts, to gain insights into the dataset.
10. Competence in identifying and handling missing data, outliers, and anomalies during data analysis.
11. Ability to use Python libraries like pandas and NumPy to calculate and analyze descriptive statistics.
12. Understanding of sampling techniques and their importance in generalizing findings from a dataset.
13. Skill in conducting hypothesis testing and interpreting p-values to make data-driven conclusions.
14. Proficiency in confidence interval estimation to estimate population parameters from sample data.
15. Ability to effectively communicate descriptive statistics findings to stakeholders through clear and concise reports or visualizations.

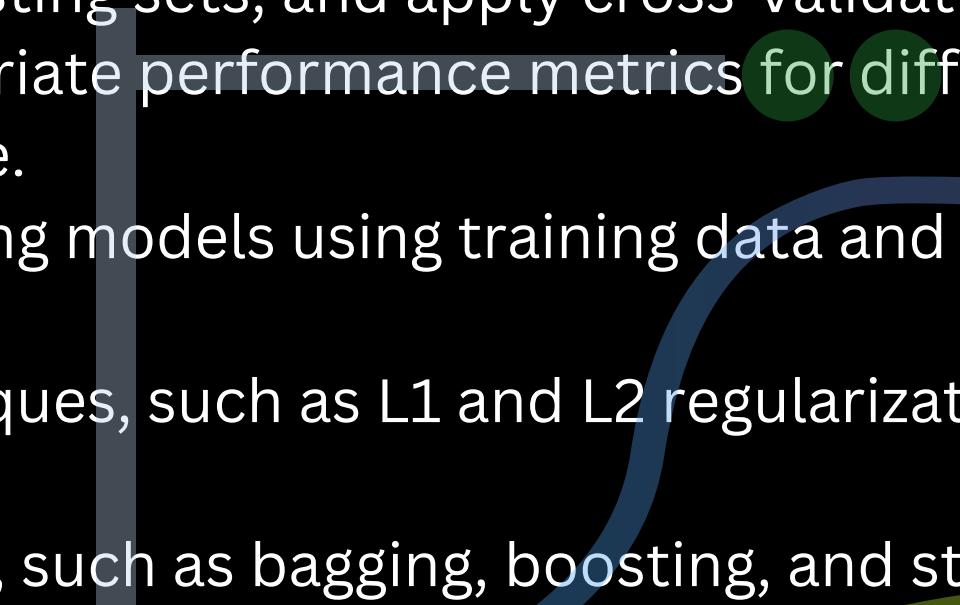
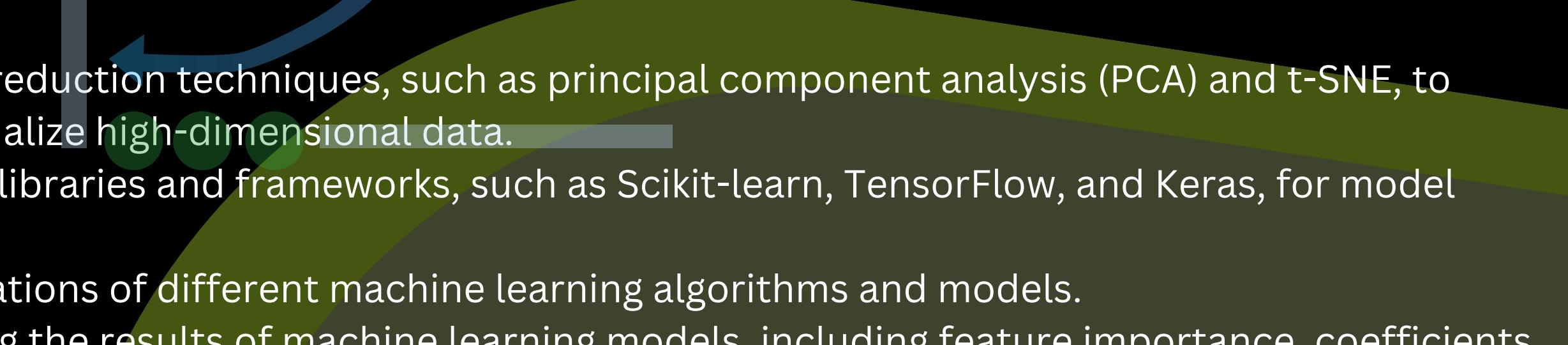
TABLEAU

1. Mastery of Tableau's user interface and its various functionalities for data visualization and analysis.
2. Ability to connect to various data sources, including databases, spreadsheets, and cloud platforms, to extract and integrate data into Tableau.
3. Proficiency in creating interactive dashboards and reports using Tableau's drag-and-drop interface.
4. Skill in designing visually appealing and engaging visualizations, such as charts, graphs, maps, and treemaps, to effectively communicate insights.
5. Competence in using Tableau's advanced features, including calculated fields, sets, and parameters, to perform complex data transformations and calculations.
6. Understanding of Tableau's data blending and data modelling capabilities for combining and transforming multiple data sources.
7. Proficiency in creating advanced visualizations, such as heat maps, scatter plots, and geographic visualizations, to uncover patterns and trends in the data.
8. Ability to create dynamic and interactive filters, hierarchies, and drill-down capabilities to allow users to explore data at different levels of detail.
9. Skill in using Tableau's mapping capabilities to visualize geospatial data and perform spatial analysis.
10. Competence in creating advanced calculations, including table calculations, level of detail (LOD) expressions, and advanced aggregations, to perform complex data analysis.
11. Understanding of Tableau's data blending and data modeling capabilities for combining and transforming multiple data sources.
12. Proficiency in creating insightful and interactive dashboards, storyboards, and presentations using Tableau.
13. Ability to leverage Tableau's advanced analytics features, including forecasting, clustering, and trend analysis, to gain deeper insights from data.
14. Skill in using Tableau's data-driven alerts and conditional formatting to highlight important data points and outliers.
15. Competence in publishing and sharing Tableau visualizations and dashboards with others and embedding them in websites or presentations.

INFERRENTIAL STATISTICS

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1. Understanding the difference between descriptive and inferential statistics.
 2. Mastery of probability concepts and distributions, such as the normal distribution and sampling distributions.
 3. Proficiency in sampling techniques, including random sampling, stratified sampling, and cluster sampling.
 4. Ability to calculate and interpret confidence intervals to estimate population parameters.
 5. Skill in hypothesis testing, including formulating null and alternative hypotheses, choosing appropriate test statistics, and interpreting p-values.
 6. Competence in conducting and interpreting t-tests for comparing means between two groups.
 7. Understanding and application of ANOVA (Analysis of Variance) for comparing means across multiple groups.
 8. Mastery of correlation analysis and regression analysis to examine relationships between variables.
 9. Skill in interpreting and performing chi-square tests for analyzing categorical data.
 10. Proficiency in understanding and analyzing statistical power and sample size calculations.

MACHINE LEARNING

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1. Understanding the fundamentals of machine learning, including supervised, unsupervised, and reinforcement learning.
 2. Mastery of various machine learning algorithms, such as linear regression, logistic regression, decision trees, random forests, support vector machines, and neural networks.
 3. Proficiency in data preprocessing techniques, including handling missing data, feature scaling, one-hot encoding, and feature selection.
 4. Ability to split data into training and testing sets, and apply cross-validation techniques to assess model performance.
 5. Skill in evaluating and selecting appropriate performance metrics for different types of machine learning tasks, such as accuracy, precision, recall, and F1 score.
 6. Competence in training machine learning models using training data and optimizing hyperparameters to improve model performance.
 7. Understanding of regularization techniques, such as L1 and L2 regularization, to mitigate overfitting in machine learning models.
 8. Mastery of ensemble learning methods, such as bagging, boosting, and stacking, to improve model performance and reduce variance.
 9. Proficiency in applying dimensionality reduction techniques, such as principal component analysis (PCA) and t-SNE, to reduce the number of features and visualize high-dimensional data.
 10. Competence in using machine learning libraries and frameworks, such as Scikit-learn, TensorFlow, and Keras, for model development and deployment.
 11. Understanding the trade-offs and limitations of different machine learning algorithms and models.
 12. Proficiency in interpreting and analyzing the results of machine learning models, including feature importance, coefficients, and decision boundaries.

DEEP LEARNING

1. Understanding the fundamentals of deep learning and its applications in various domains.
2. Mastery of artificial neural networks (ANNs), including feedforward, recurrent, and convolutional neural networks.
3. Proficiency in deep learning frameworks such as TensorFlow, Keras, or PyTorch for model development and training.
4. Ability to preprocess and transform data for deep learning tasks, including data normalization, augmentation, and handling sequential or image data.
5. Skill in designing and implementing deep learning architectures, including defining layers, activation functions, and optimization algorithms.
6. Competence in training deep neural networks using large-scale datasets and applying techniques like mini-batch gradient descent and regularization.
7. Understanding of advanced deep learning concepts, such as transfer learning, generative adversarial networks (GANs), and recurrent neural networks (RNNs).
8. Mastery of convolutional neural networks (CNNs) for tasks like image classification, object detection, and image segmentation.
9. Proficiency in recurrent neural networks (RNNs) and long short-term memory (LSTM) networks for sequential data analysis, such as natural language processing and time series forecasting.
10. Ability to apply deep learning techniques to tasks such as text generation, style transfer, image captioning, and anomaly detection.
11. Understanding the challenges and limitations of deep learning, such as overfitting, vanishing/exploding gradients, and interpretability.

NATURAL LANGUAGE PROCESSING

1. Understanding the applications and fundamentals of NLP for processing human language data.
2. Proficiency in text preprocessing, including tokenization, stemming, and stop-word removal.
3. Skill in text classification and topic modelling for organizing and categorizing text data.
4. Competence in sentiment analysis to determine the sentiment (positive, negative, neutral) of text.
5. Mastery of named entity recognition and part-of-speech tagging for extracting structured information from text.
6. Ability to implement and train neural networks for NLP tasks, such as text generation or text classification.
7. Understanding and utilization of word embeddings to capture semantic meaning in text data.
8. Proficiency in using pre-trained language models for various NLP tasks, like text classification or question answering.
9. Skill in designing and evaluating chatbots or virtual assistants using NLP techniques.
10. Competence in topic modelling techniques for identifying latent topics in text data.
11. Ability to apply NLP techniques for text summarization and condensing large amounts of text.
12. Understanding the real-world applications of NLP, such as social media analysis or customer sentiment analysis.

TIME SERIES FORECASTING

1. Understanding the fundamentals of time series data and its characteristics.
2. Proficiency in time series visualization and exploration techniques.
3. Mastery of statistical forecasting methods like moving averages and exponential smoothing.
4. Ability to apply ARIMA models for time series forecasting.
5. Skill in identifying and handling seasonality and trends in time series data.
6. Competence in advanced forecasting techniques like seasonal ARIMA (SARIMA) and exponential smoothing with damped trends.
7. Understanding and application of machine learning algorithms for time series forecasting, such as LSTM (Long Short-Term Memory) networks.
8. Proficiency in evaluating forecast accuracy using metrics like mean absolute error (MAE) and root mean squared error (RMSE).
9. Ability to handle missing data and outliers in time series forecasting.
10. Skill in incorporating external factors and covariates into forecasting models.
11. Competence in dealing with non-stationary time series through differencing and detrending techniques.
12. Mastery of time series model diagnostics and residual analysis.
13. Proficiency in using forecasting software and libraries like Prophet, ARIMA models in Python/R, or other specialized tools.

PROJECTS



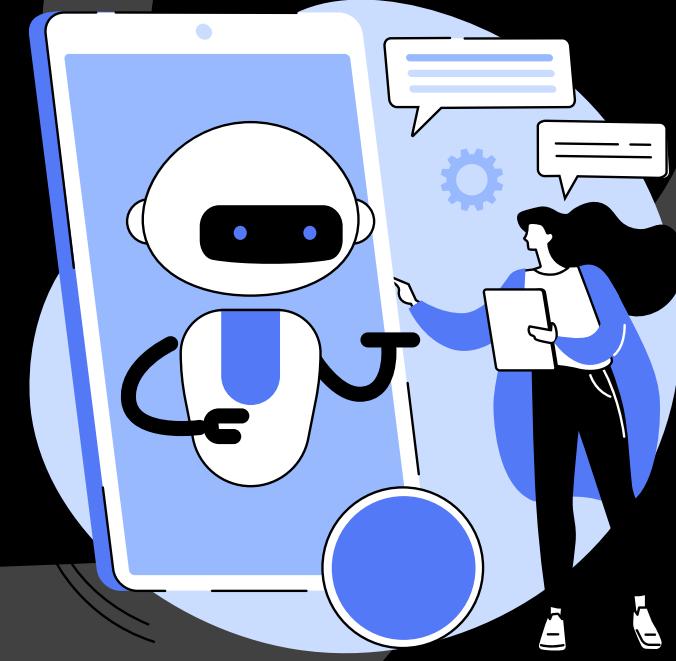
Fraud Detection



Sentiment Analysis



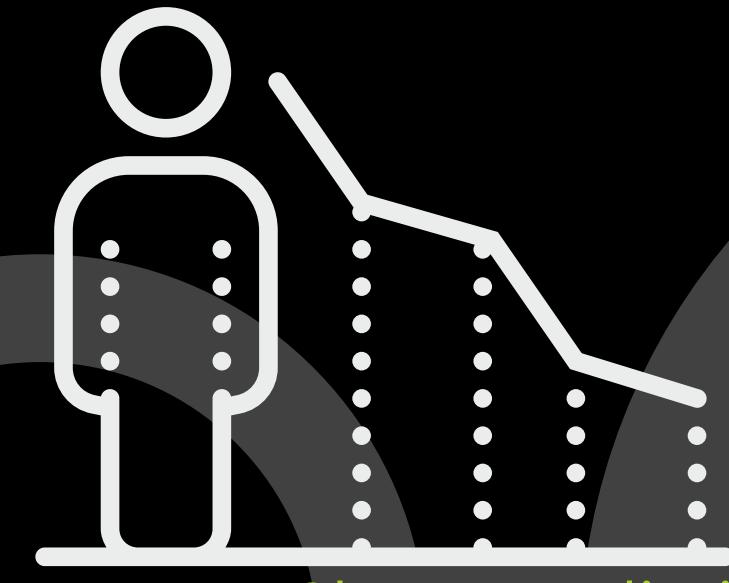
Demand Forecasting



Natural Language Processing (NLP)
Chatbot



Recommender System



Customer Churn Prediction

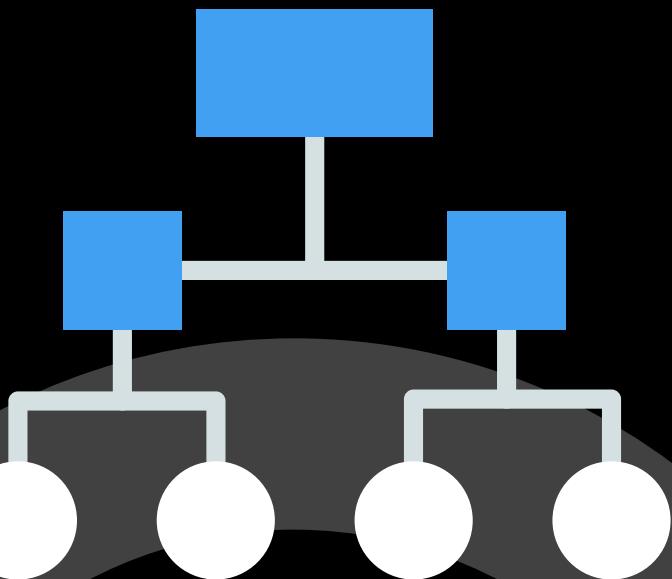


Image Classification



Healthcare Analytics

STUDENT TESTIMONIALS



Sujeet Patil

The data science course at Salems I.T. exceeded my expectations. The well-structured curriculum, experienced instructors, and hands-on approach provided me with the knowledge and practical skills needed to tackle real-world data challenges. I highly recommend this course to anyone looking to excel in the field of data science.



Kay Dsouza

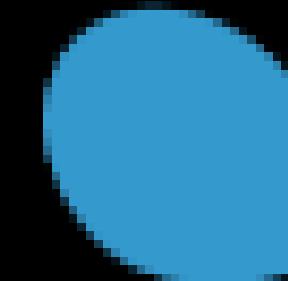
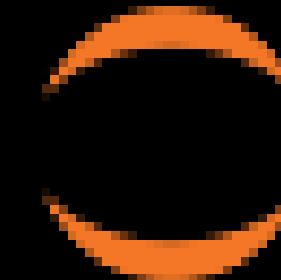
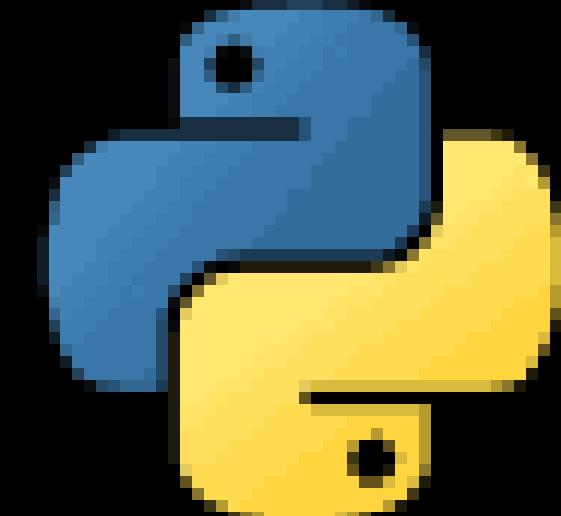
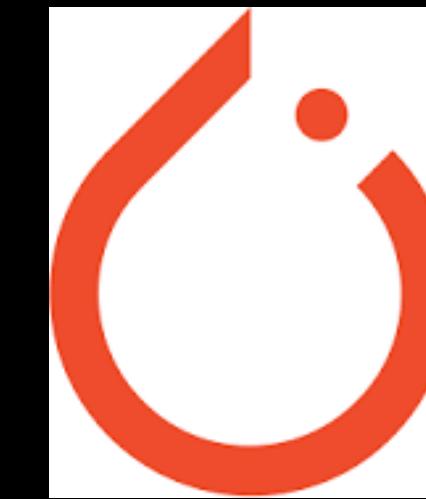
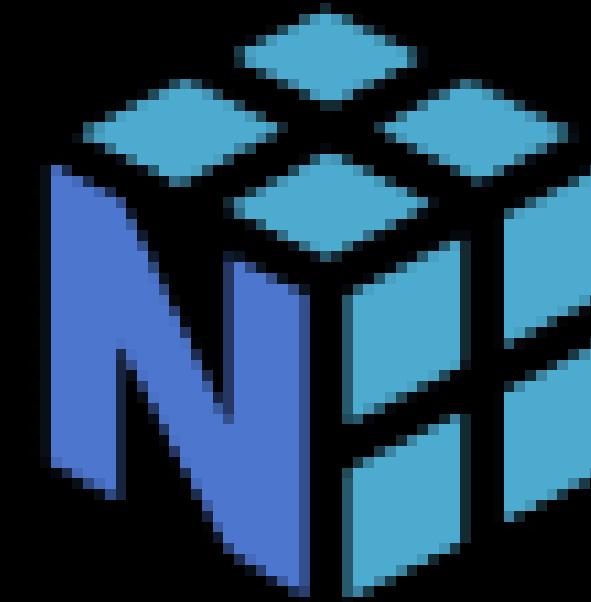
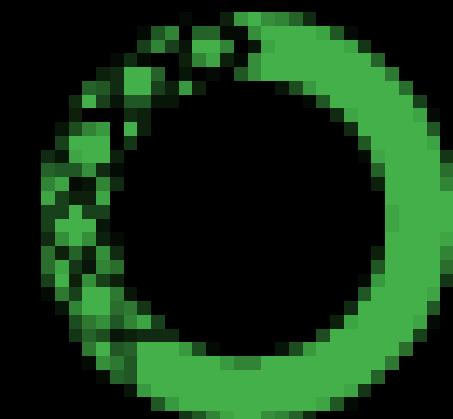
I recently completed the data science course at Salems I.T., and I am thrilled with the knowledge and skills I gained during my time there. The course exceeded my expectations in every way.



Juned Patel

Completing the data science course at Salems I.T. was an excellent decision. The program's comprehensive curriculum and expert instructors equipped me with the skills and knowledge to excel in the field. Highly recommended!

LANGUAGES AND TOOLS COVERED



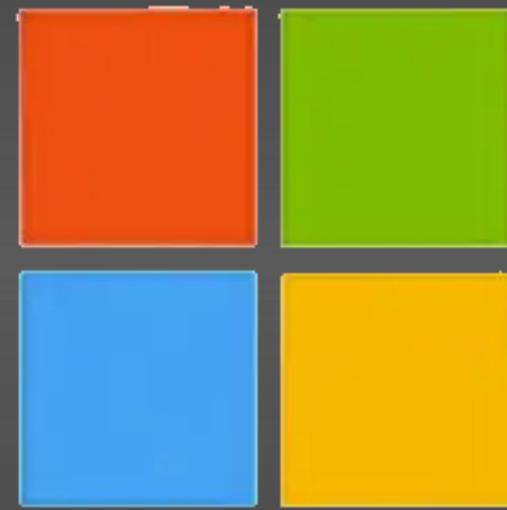
matplotlib

OUR ALUMNI WORK AT

Flipkart



TECH
mahindra



tcs

Google

amazon

accenture >

SALEMS I.T.

FIRST FLR, MINDOMATICS, OFFICE NO 9, BUILDING
NO 22, AMAR JYOTI BUILDING, OPP. ANJALI BOOK
CENTRE, GHARKUL SOCIETY, MANISH NAGAR, FOUR
BUNGALOWS, ANDHERI (W, MUMBAI,
MAHARASHTRA 400053

THANK YOU!!

TALK TO US

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Rated 4.8 by 1000+ learners | 100+ industry mentors

