

Aun Mohammad Kidwai *Data Scientist*

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Profile

As a results-driven and highly motivated data scientist, I bring a wealth of experience garnered from reputable technology firms. My career is marked by a consistent trajectory of growth, underpinned by a deep commitment to leveraging data to drive business success. I excel in fostering innovative environments, taking ownership of complex analytical challenges, and upholding the highest standards of data integrity and quality. My expertise in predictive modeling, machine learning, and data visualization equips me to deliver impactful insights that enhance customer satisfaction and operational efficiency.

With over 6 years of experience in data science and analytics roles, I am a dependable professional who delivers on objectives with precision and creativity. I am always in pursuit of novel ways to support organizational growth, maximize the utility of data assets, and optimize resource allocation. My ability to translate complex data into actionable strategies ensures that I contribute significantly to the advancement of the organization's data-driven goals.

Professional Experience

Data Scientist, *Clavis Technologies Pvt. Ltd.*

Jul 2022 – present | Noida, India

- Led the development of an intelligent document processing app, utilizing advanced ML algorithms for automated data extraction, classification, and analysis, achieving a 40% reduction in manual processing time and enhancing accuracy and efficiency.
- Spearheaded AI projects in computer vision for object detection and recognition, and NLP models for sentiment analysis and text summarization, delivering solutions that significantly improved operational efficiency and customer satisfaction.
- Initiated and executed Data Visualization projects, using state-of-the-art techniques to transform complex datasets into clear, impactful visual representations, facilitating informed decision-making and strategic planning for stakeholders.
- Advanced AI capabilities by leading additional NLP projects, focusing on sophisticated text processing techniques for language understanding, machine translation, and automated customer service solutions, thereby enhancing customer engagement and support.

Technical Lead / Developer, *Tata Consultancy Services*

Jul 2020 – Jun 2022 | Noida, India

- Developed and implemented agile project management methodologies, which resulted in a 30% improvement in project completion time.
- Automated over 50 manual processes using Python scripting and SQL queries to streamline the data analysis workflow, reducing the time to complete projects by an average of 40%.

Associate System Engineer, *Tata Consultancy Services*

2016 – 2018 | Gurugram, India

- Handled level 1 IT support including ticketing and routing and acted as a department SPOC for the client.

Education

Masters of Computer Application, *Integral University* ☑

2018 – 2020 | Lucknow, India

CGPA: 7.6

Bachelors of Computer Application, *Integral University* ☑

2013 – 2016 | Lucknow, India

CGPA: 7.5

Skills

Programming

Python

Data Science Libraries

NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, NLTK

Machine Learning

Supervised Learning, Unsupervised Learning, Natural Language Processing (NLP), Reinforcement Learning, Time Series Analysis, Model Evaluation and Validation, Feature Engineering, Model Deployment and Serving

Web Development

HTML, CSS, JavaScript, Django, Flask

Data Analysis

Exploratory Data Analysis (EDA), Statistical Analysis, Descriptive Analysis, Predictive Analysis, Prescriptive Analysis

Data Visualization

Matplotlib, Seaborn, Plotly, D3.js, Tableau, Power BI,

Deep Learning

Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Model Optimization and Hyperparameter Tuning

Database

SQL, MongoDB (NoSQL)

Projects

Intelligent Document Processing Software, *Python, AI, Computer Vision*

Aug 2022

- Developed a custom Intelligent Document Processing Software using Python, computer vision, and OCR technology, allowing for efficient and automated extraction of information from various types of documents.
- Designed and implemented the software from scratch, incorporating advanced techniques in image processing, text recognition, and data extraction to achieve high accuracy and reliability.

- Streamlined document processing workflows by automating the extraction and interpretation of key data points, reducing manual effort, and increasing productivity.

Data Analysis for Demand and Delivery Organization with Tableau

Aug 2022

The project included the collection and pre-processing of raw data. This project deals with different sample selection criteria and comparing different methods to analyze the most accurate results and create a dynamic dashboard.

Stock Price Prediction with Tableau and Machine Learning Algorithm

Sep 2022

The project included using an ML regression model from Scikit-learn which predicted Google stock prices. For the dataset, the previous year's stock data was analyzed which was accessed from a database to perform price prediction and visualize the next 6 months of stock.

Revyuh Tech Media : Sentiment Analysis

Sep 2022

The project included the analysis of raw data using the NLTK library. The data is scraped using selenium from revyuh.com. This project deals with the detection of sentiments in news articles.

Insurance Prediction with Machine Learning Algorithm

Oct 2022

The project included using an ML classifier model from Scikit-learn which predicted insurance needs. For the dataset, the previous year's insurance data was analyzed which was accessed from a database to predict insurance needs.

ShoppingMart : Customer Segmentation with Tableau

Nov 2022

The project included using an unsupervised ML model which segments customers on the basis of their shopping needs.

Sales Dashboard with Tableau, Tableau

Mar 2022 – Mar 2022

An exploratory data visualization dashboard build on Tableau Public Platform to be shared publicly

Social Distancing Monitoring System, Python, AI, Computer Vision

May 2020 – Jul 2020

- Social Distancing Monitoring System: Our system utilizes computer vision and artificial intelligence to detect and alert when social distancing guidelines are not being followed. By analyzing real-time video footage, it identifies instances where individuals are in close proximity and sends immediate alerts to ensure proper social distancing is maintained.
- Indoor Occupancy Management: Our system provides accurate and real-time monitoring of the occupancy levels in indoor locations. By integrating with sensors or cameras, it tracks the number of people present in a given area and provides insights into occupancy trends. This information helps businesses and organizations effectively manage crowd density and maintain a safe environment.
- Gate Tracking and Counting: Our system offers precise tracking and counting of people entering and exiting through a designated gate or entrance. Using advanced computer vision algorithms, it accurately records the flow of individuals, providing real-time data on the number of people entering or leaving a particular area. This feature enables efficient crowd management and assists in maintaining security protocols.

Mask Detection and Alert System, Python, AI, Computer Vision

Mar 2020 – May 2020

- Mask Detection: Utilizes computer vision techniques to accurately identify and classify whether an individual in the frame is wearing a mask or not.
- Real-time Monitoring: Performs mask detection in real-time, continuously analyzing video streams or camera feeds to promptly detect any non-mask-wearing individuals.
- Alert System: Triggers an immediate alert or notification whenever a non-mask-wearing person is detected, enabling timely intervention and enforcement of mask-wearing policies.

Portfolio Web Site and Blog, Python, Django, PostgreSQL

Jul 2019 – Dec 2019

- Developed a portfolio website and blog using Python, Django, and PostgreSQL, showcasing my projects, skills, and achievements in the field of data science and artificial intelligence.
- Implemented responsive web design principles to ensure a seamless user experience across devices and browsers, allowing visitors to easily navigate and explore the content.
- Integrated PostgreSQL database for efficient data storage and retrieval, enabling dynamic content management and robust search functionality for blog articles and portfolio items.

Handwritten text Recognition & Pen Plotting, Python, AI, Computer Vision

Sep 2018 – Feb 2019

- Handwritten Text Identification: Proficient in the techniques and algorithms used for recognizing and extracting handwritten text from various sources such as documents, forms, and historical records. Skilled in preprocessing, feature extraction, and applying machine learning or deep learning models to accurately identify and transcribe handwritten text.
- Text Recognition: Expertise in implementing optical character recognition (OCR) methods to convert handwritten text into digital formats. Proficient in leveraging OCR libraries and frameworks to extract textual information from handwritten documents, enabling efficient text analysis, search, and data processing.
- Pen Plotting Digital Handwritten Text: Experienced in pen plotting techniques to reproduce handwritten text digitally. Skilled in using pen plotters or other digital tools to recreate handwritten text with precision, ensuring faithful representation and maintaining the unique characteristics of the original handwriting. Proficient in generating high-quality plots for various applications, such as art, design, or archival purposes.

Surveillance vehicle with Live A/V Transmission, Developer and Tester

Dec 2015 – May 2016

- The Wireless Surveillance Vehicle with Live A/V Transmission is a mobile unit equipped with advanced wireless technology, cameras, and recording devices for real-time monitoring and recording of events.
- It provides seamless transmission of live audio and video feeds to a central command center or monitoring station, offering flexibility, mobility, and immediate access to real-time surveillance footage for law enforcement agencies and security firms.

Predictive Modeling for Customer Churn, Python, Data Science

Mar 2023 – May 2023

- Developed predictive models using machine learning algorithms to accurately forecast customer churn, resulting in a 20% reduction in churn rate.

- Analyzed customer data and identified key drivers of churn, enabling targeted retention efforts that decreased churn by 15% among high-risk customers.
- Implemented data-driven strategies to proactively address churn, leading to improved customer retention and increased revenue for the company.

Time Series Forecasting, Python, Data Science

Dec 2022 – Feb 2023

- Developed and implemented time series forecasting models to accurately predict future sales demand, resulting in a 15% reduction in stockouts and improved inventory management.
- Utilized advanced time series techniques such as ARIMA, SARIMA, and Prophet to analyze historical sales data and generate accurate forecasts for short-term and long-term planning.
- Integrated external factors and seasonal patterns into the forecasting models, enabling the identification of sales trends, optimizing pricing strategies, and enhancing overall business profitability.

Certificates

- Advanced Artificial Intelligence and Machine Learning Certification
- Google: Python Programming
- Mathematics for Data Science
- Hands-On Data Science with SQL, Tableau, Python and Spark

Publications

Review of Machine Learning in Mechanical Devices: Current Scenario and Future Aspects, Review Paper (COTII - 2020)

Jun 2019

Abstract – Machine Learning is an application of artificial intelligence (AI) that provides systems with the ability to learn and improve from experience without being explicitly programmed. Machine Learning (ML) focuses on the development of executable computer code that can access data and use it to learn for themselves. This paper describes the birth and growth of ML, software learning and robot learning, how ML changes the way of real-world problem solving, and the techniques used to implement ML in robotics (Robot Learning). The concept of data science evolves with ML as it generalizes knowledge from data. ML provides an answer to why things work the way they do and how to solve non-standard problems in the real world.

Organizations

Dr. B. R. Ambedkar University, Agra, Roadmap to Data Science lecture

Mar 2021 – Mar 2021 | Agra, India

- Designed and delivered engaging lectures to undergraduate and postgraduate students, researchers, and professionals.
- Developed a comprehensive curriculum covering fundamental concepts, techniques, and tools in data science.
- Incorporated practical examples and real-world applications to showcase the relevance of data science across industries.
- Used interactive teaching methods like group discussions and hands-on activities to foster active participation.
- Provided guidance on selecting appropriate programming languages, tools, and frameworks in data science.
- Offered insights into different career paths and opportunities in the field.
- Facilitated discussions on ethical considerations, data privacy, and responsible data usage.
- Created a supportive learning environment that encouraged questions and exploration beyond lecture materials.
- Implemented assessments to gauge comprehension and identify areas for improvement.

Indian Institute of Technology, Kanpur, Data Science and AI Workshop Trainer

Mar 2023 – Mar 2023 | Kanpur, India

- Conducted workshops and training programs on data science and artificial intelligence topics at IIT Kanpur, delivering interactive sessions to undergraduate and postgraduate students, researchers, and professionals.
- Optimized workshop curricula by incorporating theoretical concepts, practical exercises, and case studies to provide a comprehensive understanding of data science and AI techniques.
- Delivered engaging presentations and demonstrations, showcasing real-world applications and use cases of data science and AI across various domains.
- Streamlined hands-on coding exercises and projects, providing personalized assistance and feedback to ensure effective learning outcomes.
- Collaborated with faculty members and industry experts to integrate the latest industry practices and emerging trends into workshop content.
- Mentored participants in research projects and independent learning, guiding them in technique selection, algorithm implementation, and result interpretation.
- Implemented a robust assessment system, including quizzes, project submissions, and evaluations, to monitor participant progress and provide constructive feedback.
- Actively contributed to the continuous improvement of workshop materials, updating content based on participant feedback and advancements in the field.

Eagletfly Solutions, Data Science Trainer / Personality Development Trainer

Jan 2023 – Jul 2023 | Noida, India

- Conducted training sessions on data science fundamentals, machine learning algorithms, and statistical analysis for diverse groups including corporate clients, university students, and professionals.
- Developed and delivered engaging presentations, demonstrations, and hands-on exercises to enhance comprehension and application of data science concepts.
- Created and updated training materials, including slides, code examples, and assignments, ensuring their relevance and effectiveness.
- Mentored learners throughout their data science journey, offering personalized support and constructive feedback.
- Collaborated with cross-functional teams to customize training programs based on industry needs and learner requirements.

- Softpro India**, *Data Science Trainer / Personality Development Trainer*

Jan 2023 – Jul 2023 | Lucknow, India
- Facilitated sessions on self-awareness, communication skills, relationships, emotional intelligence, leadership, and personal branding.
 - Developed customized training programs to meet specific participant needs, ensuring maximum impact.
 - Utilized experiential learning, role-plays, case studies, and group activities for active engagement.
 - Provided personalized coaching and feedback to support individual growth and goal achievement.
 - Conducted assessments and evaluations to measure progress and make improvements.
 - Fostered a positive and inclusive learning environment based on mutual respect and open communication.

Interests

- Public speaking
 - Creative writing
 - Travelling
 - Swimming