Aun Mohammad Kidwai *Data Scientist*

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Summary

- Experienced data scientist with a proven track record of leveraging data for **business growth**.
- Over six years of hands-on experience in **analytics and data science** at leading technology companies.
- Specialized in **predictive modeling**, **machine learning**, and **data visualization** to enhance **customer satisfaction** and **operational efficiency**.
- **Innovative problem-solver** with a **results-oriented** approach to complex **data analytics** projects.
- Committed to maintaining high standards of **data quality and integrity**.
- Proficient in developing and implementing **data-driven strategies** to **optimize resource use** and improve **organizational performance**.
- Continuously seeking new ways to **leverage data** for the advancement of business objectives.
- **Strong technical skills** paired with **creative thinking**, enabling substantial contributions to **data-driven organizational goals**.

Skills

Programming & Data Science
Python, NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, Flask

Data Analysis
Exploratory Data Analysis (EDA), Statistical Analysis, Predictive Analysis, Prescriptive Analysis, Generative AI Integration

Database Management
SQL, MongoDB (NoSQL)

Machine Learning and AI
Supervised Learning, Unsupervised Learning, Natural Language Processing (NLP), Time Series Analysis, Model Evaluation, Model Validation, Feature Engineering, Large Language Models (LLMs), Prompt Engineering, Fine-Tuning Models

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

Generative AI & LLM Tools
LLaMA, BERT, GPT, Hugging Face Transformers, OpenAI API, LangSmith

Statistical & Analytical Skills
Data collection, Statistical modeling, Hypothesis testing, Data mining, Predictive analytics, Big data analytics, Critical thinking, Problem-solving

Experience

Data Scientist, *Clavis Technologies Pvt. Ltd.*   Jun 2022 – present │ Noida, India
- Spearheaded the organization's data analysis evolution, developing an intelligent document processing app, leading computer vision projects for COVID-19 safety, and enriching Mindwave AI with NLP, substantially boosting efficiency and insights.
- Engineered a versatile intelligent document processing application using machine learning to extract, restructure, and summarize document data, compatible as both an add-on and a standalone application, enhancing document management.
- Directed computer vision initiatives to monitor and alert on COVID-19 guideline breaches, like social distancing and mask-wearing, through video analytics, improving public health safety measures.
- Enhanced the proprietary Mindwave AI with advanced NLP for document summarization, classification, and data visualization, streamlining data analysis and enriching project outcomes.

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 Engeneer, *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

Publications

UniParseAI: A Unified Approach to Advanced SQL and NoSQL Query   Jul 2024
Parsing and Manipulation Boosted by AI Capabilities, *International*
Conference on Advances in Science, Engineering & Technology (ICASET-2024)

Abstract - UniParseAI is an advanced parsing library designed to enhance SQL query processing and provide support for future NoSQL integration. Built on the foundation of an open-source SQL parser, UniParseAI introduces significant enhancements, including query normalization, detailed component extraction, and comprehensive updating capabilities. The normalizer standardizes queries into a consistent format, improving readability and manageability. Extractors identify and categorize query components such as columns, tables, conditions, formatting parameters, functions, and subqueries, offering detailed insights for analysis and optimization. The updaters enable flexible modifications of these components, allowing for extensive query restructuring. UniParseAI handles single and bulk queries of mixed complexity, generating structured DataFrames as output. Future developments include NoSQL support, virtual table introduction for efficient bulk query processing, and natural language processing (NLP) integration for intuitive query manipulation. This paper presents the architecture, features, and performance of UniParseAI, highlighting its contributions to enhancing query handling in both SQL and NoSQL environments.

Review of ML in Mechanical Devices, *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.

Guest Lectures

Indian Institute of Technology, Kanpur,   Mar 2023 – Mar 2023 │ Kanpur, India
Data Science and AI Workshop Trainer
- 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.

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.

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.