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ABOUT ME

Motivated and results-driven professional with 5 years of experience in AI, data science, and application development. Strong leader with a focus on collaboration, high-performance levels, and ethical conduct. Excellent communicator, goal-oriented and dedicated to achieving successful outcomes for the organization.

WORK EXPERIENCE

06/09/2023 – CURRENT Islamabad, Pakistan

AI Associate Universal Service Fund

- Conceptualize, strategize, and execute data solutions, optimizing data pipelines for diverse daily operational functions.
- Design and implement data set processes for tasks encompassing data modeling, mining, and production.
- Incorporate cutting-edge data management techniques, technologies, and software engineering tools into existing structures and platforms.
- Establish secure connections to data sources, comprehending their limitations and assets, and systematically ingest data into various storage components and data lakes, ensuring accurate content, format, and integrity throughout the data's lifecycle.
- Collaborate with cross-functional teams and departments for requirement gathering, providing consultation, and conducting workshops.
- Implement a data-driven approach utilizing AI tools to enhance performance, including forecasting and generating predictive reporting.
- Streamline and automate day-to-day processes and operations through the integration of AI tools.
- Conduct analysis and data modeling of raw data pertinent to different stakeholders within the organization.
- Develop effective data modeling and data pipelining solutions in collaboration with cross-functional teams and departments.
- Integrate new data management techniques, technologies, and software engineering tools into existing structures and platforms.
- Utilize database and web application technologies to design, develop, and evaluate innovative AI-based solutions.
- Automate periodic reports and conduct statistical analyses.
- Integrate BI platforms with enterprise systems and applications.

01/10/2021 – 30/08/2023 Islamabad, Pakistan

Team Member AI National Language Promotion Department

- s an ASR AI Engineer, I develop advanced ASR systems using transformer architectures and Python/Torch. My responsibilities are as below
- Actively collaborate with the team, keeping up with the latest advancements in ASR and transformers. I experiment, prototype models, and contribute to research papers.
 - Designed ASR models using transformer architectures, exploring different variants and adapting them for speech recognition. I integrate additional components to improve system performance.
 - Implemented preprocessing pipelines to clean and transform speech data, using techniques like audio signal processing and noise reduction. I handle large-scale datasets efficiently.
 - Trained ASR models using labeled datasets like Common Voice and self-made data. I employ techniques like transfer learning and data augmentation to improve generalization. I optimize models for efficiency and scalability.
 - Designed and conducted evaluation experiments, measuring the accuracy and word error rate of ASR models. I analyze model behavior, identify areas for improvement, and provide actionable insights for enhancing performance.
 - Thoroughly document every part of the project for future use and successfully launch the application.

02/02/2020 – 01/11/2021 Islamabad, Pakistan

Software Engineer SDGs Academey

- As a software engineer, I was responsible for cloud-based development, data visualization and application development. My core responsibilities includes
- Utilized Azure for optimal cloud-based application development and deployment.
 - Used Power BI for interactive dashboard creation and insightful data analysis.
 - Designed user-friendly front ends with ASP.net and Streamlit, collaborating with UX/UI designers.

- Led and managed development teams, providing guidance and fostering collaboration.
- Stayed updated with advancements, proposed innovative solutions, and conducted surveys for NGOs worldwide.

01/01/2020 – 01/12/2020 Islamabad, Pakistan

Full stack developer Nextep Technologies

My responsibilities at nextep technologies include

- Server-side Development: Proficient in developing robust and scalable server-side applications.
- Managed Projects on Github: Skilled in utilizing version control and collaboration tools for efficient project management.
- Managing and creating normalized Databases: Experienced in designing and implementing efficient and well-structured databases.
- QA of currently running projects: Expertise in performing thorough QA testing and identifying and reporting bugs in live projects.

01/06/2019 – 01/01/2020 Islamabad, Pakistan

Intern Universal Service Fund

- I have successfully created an employee management system, leveraging my skills in backend development and database management.
- I collaborated closely with the IT department to ensure seamless integration and functionality of the system.
- Additionally, I took an active role in performing quality assurance testing of websites, ensuring high standards of performance, usability, and security

EDUCATION AND TRAINING

2014 – 2018 Islamabad, Pakistan

BS Software engineering Foundation university

Website <https://www.fui.edu.pk/>

Certified Microsoft Technology Associate Microsoft

Website https://www.credly.com/badges/fb6c79b9-08ae-4eba-80c6-b94921245e20/public_url

LANGUAGE SKILLS

MOTHER TONGUE(S): Urdu

Other language(s):

English

Listening C2

Spoken production C2

Reading C2

Spoken interaction C2

Writing C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

WEB / MOBILE DEVELOPMENT

REST API management | flask | streamlit | html,css,JS,bootstrap

SOFT SKILLS

Team management & Team work | Ability to work in a team and autonomously | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access

ARTIFICIAL INTELLIGENCE

Machine LearningAI | Pytorch,Tensorflow | SQL and MS-SQL | Python (PyROOT, RDataFrame; ML: Keras, TensorFlow) | Data Cleaning, Data Warehousing, Data Modeling

PROJECTS

Urdu ASR

- Urdu ASR Mobile and Web App enables real-time speech-to-text conversion in Urdu, accurately transcribing spoken words into written text for seamless communication and interaction.
- The app caters to diverse users, including Urdu speakers, language learners, and professionals, providing a convenient way to convert spoken Urdu into written text, facilitating tasks like messaging, note-taking, and content creation.
- With advanced language models and specific speech recognition technologies for Urdu, the app ensures high accuracy and performance. It is available on mobile devices and web browsers, offering flexibility and accessibility to effortlessly convert spoken Urdu into written text.

SDGS Tracker

- Tracking progress: SDG tracker maps stakeholders' efforts towards SDGs in Pakistan, evaluating NGOs, SMEs, government, and public-private sector projects.
- Automation and monitoring: Role-based access and separate dashboards enable process automation, project completion ranking for NGOs, ensuring timely SDG attainment.
- Data visualization and integration: SDG tracker allows multimedia and text uploads, visualizing progress by SDG, region (national, provincial, divisional, district), integrating with statistical departments, highlighting AI's role.

Car E Talk

- Seamless integration: Mobile devices are integral to our lives, just as cars would be connected. Fleet management requires timely information on car systems to be provided to managers and early diagnostics performed.
- Sensor monitoring: Different sensors attached to the car monitor its health. This data is received by a microcontroller, which displays the information on the driver's mobile screen and uploads it to a cloud server for maintaining a system history.
- Car-e-Talk solution: Car-e-Talk offers a monitoring system that tracks vehicle health, detects anomalies, and provides information about the nearest maintenance center. The solution predicts health, enables automatic reporting, offers real-time vehicle health statistics, improves safety, and provides vehicle diagnostics.

CURRENT

NOC Datawarehouse

- Coordinating the integration of large datasets from various sources, including network performance metrics, service provider data, and operational logs, into a centralized data warehouse. This includes handling complex data types and ensuring data consistency and accuracy.
- Developing and optimizing ETL (Extract, Transform, Load) processes to efficiently handle data ingestion, transformation, and loading. Leveraging tools such as Dask, Polars, and PostgreSQL to process and analyze large volumes of data with high performance.
- Creating and maintaining data models that support detailed analysis and reporting. This includes designing fact and dimension tables, as well as implementing star and snowflake schemas to facilitate drill-up and drill-down analysis.
- Implementing performance tuning techniques for SQL queries and stored procedures to ensure efficient data retrieval and reporting. Optimizing PostgreSQL stored procedures and managing indexing strategies to enhance query performance.
- Developing and delivering insights through customized reports and dashboards, enabling stakeholders to monitor network performance, service quality, and operational efficiency. Utilizing data visualization tools to present complex data in a clear and actionable format.
- Working closely with network engineers, analysts, and other stakeholders to understand data requirements and deliver solutions that support decision-making and strategic planning. Providing technical support and guidance on data-related issues and best practices.

HOBBIES AND INTERESTS

Programming

Horse ridding

Gardening