



Musaddique Hussain Jahagirdar

Data Scientist

Experienced data scientist with a strong background in statistics, machine learning and .NET development. Proficient in data analysis, modeling, and visualization using Python and SQL. Skilled in utilizing the .NET framework to build scalable applications and integrate data science solutions. Strong problem-solving skills and a passion for leveraging data to drive business insights and innovation.

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WORK EXPERIENCE

Total 12+ years of experience in .NET, 5+ years in Chatbots, 3+ years in Machine Learning, 1 year in Generative AI.

Data Scientist | Software Engineer | Enterprise ChatGPT Accenture Solution Private Ltd.

08/2023 - Present,

Bangalore, India

Achievements/Task

- **Primary goal:** Create exceptional conversational experiences, intelligent information retrieval, and a seamless user interface.
- **Solution:** Utilized Retrieval-Augmented Generation (RAG) for interactive conversations, integrated Azure Cognitive Search for efficient information retrieval, incorporated Azure OpenAI for enhanced language understanding, leveraged LangChain for customize LLM, prompts, chains and memory. developed a responsive web interface using ASP.NET Core Blazor and MudBlazor, enhance security with Azure AD Authentication.
- **Result:** Successful delivery of a chatbot solution with highly engaging conversations, accurate information retrieval, natural language understanding, and a visually appealing user interface. Revolutionized communication, improved information access, and enhanced user satisfaction within the enterprise.

Data Scientist | Software Engineer | Email Advisor Accenture Solution Private Ltd

01/2022 - 07/2023,

Bengaluru, India

Achievements/Tasks

- Developed an Email Advisor system using Python, machine & deep learning, standard packages and frameworks, Azure DevOps Repos, custom packages with Azure Artifacts, and FastAPI.
- **Primary goal:** Automate the resolution process for incoming emails by intelligently analyzing and responding to them.
- **Solution:** Utilized Python with machine learning and deep learning techniques, standard packages and frameworks for natural language processing, text classification, and sentiment analysis. Employed Azure DevOps Repos for version control and collaboration, custom packages stored in Azure Artifacts, and FastAPI for building a scalable backend API.
- **Result:** Successfully delivered an efficient and automated Email Advisor system that intelligently analyzes incoming emails, extracts relevant information, and determines appropriate resolutions. Leveraged established tools and algorithms for accurate natural language processing and sentiment analysis. Facilitated collaboration with Azure DevOps Repos and reusable components with Azure Artifacts. FastAPI ensured quick response times for email resolution, improving efficiency and customer satisfaction. Overall, this project successfully delivered an Email Advisor system that streamlined the resolution process, enhanced efficiency, and improved customer satisfaction. Achieved significant FTE reduction of approximately 10% and cost savings of up to 30%.

COMPETENCIES

.NET

Python

SQL

FastAPI

NLP

Machine Learning Algorithms

Deep Learning

Chatbot & Real-time Application

LangChain & OpenAI

Docker, Kubernetes

TECHNICAL SKILLS

Operating System:

Windows, Linux (necessary commands for Docker)

Integrated Development Environment:

Visual Studio, VS Code, Pycharm, Jupyter Notebook, Colab

Programming Languages:

C#, Python, SQL

Machine Learning, Frameworks & Libraries:

Supervised & Unsupervised Learning, Deep Learning, Classification, Regression, Clustering, Scikit-Learn, Scipy, TensorFlow, Keras, NumPy, Pandas, BeautifulSoup4, Spacy, OpenCV.

Generative AI Technologies:

LangChain, LlamaIndex & OpenAI & Open source LLM Models And Guardrails.

Web Technologies:

ASP.NET Core MVC, Blazor Server & Web assembly, SignalR

Web Services:

ASP.NET Core Web API, FastAPI, WebSocket

Bot Technologies:

Microsoft Bot Framework, Azure Language & Speech Studio, Azure Cognitive Services, Dialogflow, Twilio

Database, Data Analysis & Visualization:

MS SQL Server, Vector Databases, Statistical Analysis, Exploratory Data Analysis, Hypothesis Testing, Matplotlib

Version & Data Control:

Git, TFS, Agile, Azure DevOps, CI/CD Pipelines, MLflow, DVC

Cloud Platforms & Containers:

Azure, Google, Docker, GKE, AKS

PROJECTS

Open-Source Contribution

- myPortfolio: [MusaddiqueHussainLabs](https://github.com/MusaddiqueHussainLabs)
- [musaddiquehussainlabs](https://github.com/musaddiquehussainlabs) · PyPI: Empowering text analytics with advanced tools for comprehensive NLP and LLMs.

Data Scientist | Software Engineer | Live Agent Portal

Accenture Solution Private Ltd

09/2020 - 12/2021,

Bengaluru, India

Achievements/Tasks

- Developed a Live Agent Portal using C#, ASP.NET Core Blazor, MudBlazor, ASP.NET SignalR, WebSockets, ASP.NET Core Web API, Azure AD Authentication, and SQL Server.
- Primary goal:** Create a robust and secure portal for real-time communication between agents and customers.
- Solution:** Utilized ASP.NET Core Web API for backend data management, ASP.NET Core Blazor and MudBlazor for the frontend web interface, ASP.NET SignalR and WebSockets for real-time messaging, Azure AD Authentication for secure access control, and SQL Server for efficient data storage.
- Result:** Successful delivery of a highly functional Live Agent Portal enabling real-time communication, intuitive user interface, instant messaging, secure authentication, and efficient data management. Improved customer support, streamlined communication, and enhanced data security within the organization.

Chatbot Developer | AI Engineer | Enterprise Chatbots

Accenture Solution Private Ltd

10/2017 - 08/2020,

Bengaluru, India

Achievements/Tasks

- Developed chatbot solutions for banking and learning domains using C#, Microsoft Bot Framework, Azure Cognitive Services, Azure Language Studio, Speech Studio, LUIS, and QnA Maker.
- Primary goal:** Provide efficient customer support and educational assistance through conversational AI and natural language understanding.
- Solution:** Utilized C# and Microsoft Bot Framework for chatbot development. Leveraged Azure Cognitive Services, including Azure Language Studio and Speech Studio, for advanced language processing and voice interactions. Integrated LUIS for intent recognition and entity extraction, and employed QnA Maker for a knowledge base of frequently asked questions.
- Result:** Successfully delivered chatbot solutions that personalized customer support in the banking domain, addressed inquiries and provided transactional information. Enhanced educational experiences in the learning domain by delivering relevant information, course recommendations, and accurate responses. Enabled voice interactions, improved language understanding, and enhanced user satisfaction.

Senior Software Developer | Work Management Tool

Capgemini Private Ltd

09/2011 - 31/2015,

Bengaluru, India

Achievements/Tasks

- Developed a work management tool for the aerospace domain using C#, ASP.NET, ADO.NET, and SQL Server.
- Primary goal:** Efficiently manage resources, daily tasks, quality checks, document uploads, and provide a helpdesk module for streamlined support.
- Solution:** Utilized ASP.NET as the backend framework, ADO.NET for seamless database connectivity to SQL Server, and leveraged SQL Server for secure and reliable data storage.
- Result:** Successfully delivered a highly functional work management tool that optimized resource allocation, improved task coordination, ensured adherence to industry standards through quality checks, facilitated secure document storage, and provided prompt support services. Leveraged the power of ASP.NET, ADO.NET, and SQL Server to streamline operations and enhance productivity within the aerospace domain.

MetaConvo NLP 1.0 (Enterprise) (01/2022 – Present)

- Text processing library for Python, It provides production-grade,scalable, and trainable versions of the latest research in natural language processing.
- created custom extraction models like, Email Parser with attachments,documents analysis including disambiguation, relevant, entities,relations, sentiment, PII and language detection.

EDUCATION

Bachelor of Engineering in Electronics and Communication

BLDE Association of Bijapur, Affiliated under V.T.U Belgaum

2006 – 2010

Diploma in .NET

From NIIT, Pune

2010 – 2011

CERTIFICATES

AZ-900: Microsoft Azure Fundamentals

12/2019

HONOR AWARDS

Growth Catalyst Award – Accenture (02/2022)

ACE awards program

Growth Catalyst Award – Accenture (09/2022)

ACE awards program

Growth Catalyst Award – Accenture (12/2021)

ACE awards program

Orange Award – Accenture (03/2021)

ACE awards program

Orange Award – Accenture (12/2018)

ACE awards program

Team Award – Accenture (12/2018)

ACE awards program

Spot Award – Accenture (08/2016)

Award from APP R&R

Excellent Service Delivery Award – Capgemini (03/2015)

Award from R&R Team

LANGUAGES

English

Native or Bilingual Proficiency

Urdu

Native or Bilingual Proficiency

Hindi

Native or Bilingual Proficiency

Kannada

Limited Working Proficiency

Arabic

Elementary Proficiency

PERSONAL DETAILS

Passport Number – W8198514

Marital Status – Married

INTERESTS

CL/CI

Artificial Intelligence