Amit Prabhat

AI/ML Computational Science Analyst@Accenture

5X Microsoft Certified | MERN | Net | Azure PaaS |

Python | Azure AI Services | LLMs | 3rd Rank Data AI Hackathon

Bengaluru, Karnataka 560035

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Education

S J B Institute of Technology(VTU CGPA-7.56)　　　　　　**Aug. 2017 – Jul 2021**
Bachelor of Engineering - ECE　　　　　　*Bengaluru, Karnataka*

Technical Skills

Tools and Languages: Python, .Net, Java, React, NodeJS, HTML, CSS, C#
Developer Tools: VS Code, Visual Studio, Power Virtual Agent, Power Automate, Git, Postman
Technologies/Frameworks: Azure PaaS, AI Services, LLMs, ASP.NET, GitHub, Flask, OpenAI, LangChain

Certifications

- **Azure Fundamentals** | Microsoft　　　　　　Nov 2024
  Azure PaaS, Azure Cosmos DB, Azure Functions, Azure OpenAI, Azure SQL
- **Azure AI Engineer Associate** | Microsoft　　　　　　Sep 2024
  LLM, Microsoft Azure, Azure OpenAI, Azure Functions, Azure Cosmos DB,Hugging Face,Langchain
- **Career Essentials in Generative AI by Microsoft and LinkedIn** | Microsoft　　　　　　Nov 2023
  LangChain, AI, LLM, Generative AI
- **Twilio Programmable Messaging and Voice Professional** | Twilio　　　　　　Nov 2023
  VoIP, Messaging Architecture, Speech Recognition
- **Microsoft Certified: Azure AI Fundamentals** | Microsoft　　　　　　Jun 2023
  Azure PaaS, Speech Recognition, Hugging Face,Langchain, Azure AI Services
- **.Net Tech Expressway Program** | Accenture　　　　　　Apr 2022
  C#, Microsoft Azure, Web Development
- **Microsoft Certified: Power Platform Fundamentals** | Microsoft　　　　　　Jan 2022
  Power Platform, Azure PaaS
- **Basics of Data Science in Python** | Tata Steel　　　　　　Aug 2019
  Data Science, Python, Azure AI Services

Experience

Accenture　　　　　　**Aug 2022 — Present**
Application Development Analyst　　　　　　*Bengaluru, Karnataka*

- Developed a Python-based pipeline, integrating **Azure Cognitive Search** with **Azure OpenAI**, transforming information retrieval from a comprehensive database. Utilized **SQL**, **Pandas**, **NumPy**, and libraries such as **Transformers**, **TensorFlow**, **PyTorch**, and **Langchain** for data manipulation and processing.
- Developed MS Bot Proxy for **Nuance Mix**, enabling the utilization of Nuance Mix dialogs in MS Bot using the **DLG API**. Leveraged frameworks like **TensorFlow**, **Keras**, and **PyTorch** for model training.
- Designed and implemented an innovative **Azure Communication Service Utility**, integrating SMS functionality with the **Bot Framework SDK**, enhancing communication capabilities and user experience. Deployed the solution using cloud platforms like **Azure ML**.
- Integrated **Azure Cognitive Vector Search** and **Azure OpenAI** and coordinated the integration of MS Bot with **AudioCodes**, **Nuance Gatekeeper**, and **Azure OpenAI**. Implemented observability tools such as **Langsmith** to monitor model behavior and fine-tune applications in production.

Accenture　　　　　　**Aug 2021 — Aug 2022**
Application Development Associate　　　　　　*Bengaluru, Karnataka*

- Developed and unit tested a **.Net Core Web API** for user verification within a Banking chatbot, leveraging the **Microsoft Bot Framework** and **Azure Cognitive Services** to enhance security and user experience. Employed **Python** and its ML libraries such as **TensorFlow, PyTorch, and Scikit-learn** to ensure robust functionality.
- Integrated robust security specifications and API integrations, ensuring seamless deployment and operation on **Azure PaaS Services** and **Azure DevOps** for CI/CD. Leveraged **CLU NLP** to fine-tune model behavior.
- Developed a highly efficient Banking chatbot using **Microsoft Bot SDK** , capable of handling 92 distinct banking operations, **caller verification**, **agent-handoff**, and debit/credit card blocking services. Utilized **Audiocodes** and **Nuance Gatekeeper**, ensured the chatbot supports both voice (IVR) and text communication, providing a comprehensive user interaction platform. Implemented and scaled deep learning models on **Azure ML**.

Dlithe   **Mar 2021 — Apr 2021**
Intern   *Bengaluru, Karnataka*
- Demonstrated proficiency in coding exercises related to network security, vulnerable testing, and exploiting Linux machines, following OWASP guidelines.
- Acquired hands-on experience in Ethical Hacking and Network Security with DLithe development team.
- Gained valuable domain knowledge and hands-on experience in agile development processes while effectively utilizing GitHub as a collaborative development tool.
- Acknowledged for exemplary coding prowess and adeptness in critical thinking for designing innovative solutions.

TATA Steel   **Jul 2019 — Aug 2019**
Summer Intern   *Jamshedpur, Jharkhand*
- Gained hands-on experience in predicting stock prices using machine learning techniques, specifically regression models, while collaborating with industry professionals.
- Utilized advanced algorithms and statistical methods, including linear regression and time series analysis, to scrutinize stock market data and produce precise forecasts. Tasks included data preprocessing, feature engineering, and model evaluation.
- Showcased expertise in data science by effectively communicating intricate concepts and contributing to project success through the use of Python and Azure AI Services. Skills applied included data visualization, model tuning, and deployment on cloud platforms.

Achievements / Extracurricular

Sparkling Star Award   **May 2022**
Associated with Accenture   *Recognized for outstanding quarterly performance.*

Client Value Creation Award   **June 2022**
Associated with Accenture   *Played a pivotal role in project delivery, leading to significant client value creation.*

Sparkling Star Award   **August 2022**
Associated with Accenture   *Recognized for outstanding quarterly performance.*

Microsoft Data AI Hackathon   **June 2023**
Associated with Accenture   *Secured Third place in a competitive hackathon organized by Accenture and Microsoft.*

Ace Award   **June 2023**
Associated with Accenture   *Recognized for remarkable performance, signifying a high level of achievement.*

CloudFare Award   **August 2023**
Associated with Accenture   *Received the highly prestigious CloudFare Award for expertise in cloud-based technologies.*

Achievements / Extracurricular

Technical Committee SJBIT   **Aug 2018 — Jul 2021**
Program Coordinator   *VTU*
- Successfully coordinated several technical fests, further demonstrating strong coordination and management skills.
- Founded the "Turing Club", a prominent tech-focused society, significantly elevating the tech culture within the institution.

IEEE   **June 2018 — Aug 2020**
Member   *VTU*
- Served as a member of the Institute of Electrical and Electronics Engineers (IEEE) for a duration of 2 years and 1 month.
- Coordinated several events and technical seminars, showcasing strong organizational and leadership skills.