

Roshani Nitin Pawar

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EDUCATION

Masters of Science in Artificial Intelligence

Jan. 2024 – Present

University of Aberdeen

Aberdeen, UK

- **Coursework:** Natural Language Generation, Knowledge Representation and Reasoning, Data Mining with Deep Learning, Symbolic AI, Machine Learning, Software Agents and Multi-Agent Systems, Evaluation of AI Systems, Applied Artificial Intelligence
- **Dissertation:** Vocabulary Through Time: Identifying Methodological Patterns in Temporal Distribution Analysis - Research on temporal biases in Large Language Models

Masters of Computer Applications

July. 2021 – Sept. 2023

Savitribai Phule Pune University | CGPA: 8.5/10.0

Pune, IN

- **Coursework:** Java, Python Programming, Operating System Concepts, Cyber Security, Cloud computing, Software Project Management, Optimization Techniques, Deep Learning, DevOps, Big Data, Database Management

Bachelor of Computer Applications

July. 2018 – July. 2021

Savitribai Phule Pune University | CGPA: 9.6/10.0

Pune, IN

- **Coursework:** Android Development, C, C++, IoT, Database Management, Computer Networks and Network Security, Data Structures, Computer Organization, Software Engineering, Advanced Web Technologies

EXPERIENCE

Placement Programmer

Jun. 2024 – Aug. 2024

University of Aberdeen

- Summer placement at the Centre for Healthcare Randomised Trials (CHaRT), contributing to impactful healthcare research initiatives.
- Developed and implemented modules for a research participant communication platform using ASP.NET, enhancing data interaction efficiency and user experience.
- Optimized the existing data management system using ASP.NET and C#, leading to a 40 percent increase in data processing efficiency.
- Worked closely with senior developers to integrate interactive features using JavaScript and jQuery, improving application functionality.
- Provided technical insights and innovative solutions during cross-functional meetings, enhancing project planning and alignment.
- Facilitated communication between technical teams and clinical trial staff to maintain alignment on project goals and technical specifications.

Senior Systems Associate

Dec. 2021 – Dec. 2023

Infosys

- Partnered with Microsoft to design and implement enhanced security protocols in cloud-based platforms, contributing to the safety and robustness of Exchange Online and SharePoint.
- Led SAP application customization and development using SAP ABAP and S/4 HANA, improving operational efficiency and user engagement.
- Spearheaded SAP Business Technology Platform implementations, streamlining processes and boosting productivity by leveraging cutting-edge SAP technologies.
- Developed and deployed .NET applications in Docker containers on Linux systems, ensuring seamless multi-platform compatibility and reducing deployment time.

Data Operator

Mar. 2021 – Apr. 2021

Sunpikt

- Oversaw backend ERP operations, ensuring data integrity and efficient processing of daily tasks.
- Processed and managed daily deliveries, order data, and company reports, resulting in accurate record-keeping and streamlined reporting.

VOLUNTEERING

Unique Educational Foundation

May 2020 – Present

Volunteer Technical Consultant

- Contributed to initiatives aimed at empowering women in rural and urban areas through strategic financial inclusion programs.
- Provided technical expertise to develop data-driven solutions that supported micro-financing and financial literacy workshops.
- Collaborated with cross-functional teams to create outreach tools and web-based platforms for educational purposes, boosting engagement by 30%.
- Managed and streamlined data processes for reporting and monitoring, ensuring transparency and efficiency in program execution.
- Trained local volunteers on using digital tools and basic programming, enhancing the sustainability of technological empowerment efforts.

PROJECTS

Vocabulary Through Time: Temporal Distribution Analysis

Jan. 2025 – May 2025

- Analyzed tokenization patterns of large language models (LLMs) to understand representation of historical content
- Adapted a linear programming approach to infer temporal distributions in training data from the 1850s to 2020s
- Identified systematic bias patterns showing overestimation of historical periods and underestimation of recent decades
- Developed a methodology for temporal auditing of AI systems without requiring access to training data
- Created a comprehensive temporal reference dataset spanning from the 1850s to 2020s for future research

CERTIFICATIONS

Azure Certified: Demonstrated expertise in Microsoft Azure cloud services and solutions (2023).

SAP Fiori UI5 OData Consultant: Certified in designing and developing user-centric applications using SAP Fiori (Infosys, 2022).

SAP ABAP Developer: Certified in developing and customizing applications with SAP ABAP (Infosys, 2021).

Expert in Fiori Enhancements: Specialized in extending and customizing SAP Fiori applications (Infosys, 2022).

SAP S/4 HANA: Certified proficiency in using SAP S/4 HANA for enterprise resource planning (Infosys, 2021).

SKILLS

Programming Languages: Python (Advanced), Java (Advanced), C# (Intermediate), C++ (Intermediate), JavaScript (Intermediate).

Web Technologies: ASP.NET, HTML5, CSS3, Angular, Bootstrap, jQuery.

Frameworks and Platforms: .NET Core, Docker, SAP ABAP, SAP Fiori, SAP S/4 HANA.

Data Analysis and Visualization: Tableau, Power BI, SQL, Database Management.

Machine Learning and AI: Neural Networks, Natural Language Generation, Symbolic AI, Large Language Models.

Tools and Software: Git, Visual Studio Code, Microsoft Azure (Certified), DevOps Tools.

Soft Skills: Time Management, Problem Solving, Team Collaboration, Multilingual Communication, Remote Working.