

Harsh Hirenkumar Bhavsar

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Summary

Currently pursuing Master's in Computer Science, gaining knowledge and practical experience in deep learning and AI, while expanding proficiency in Java, R, and Python through coursework. SAP ABAP developer with 3 years of experience in translating business requirements into technical specifications and delivering high-quality, scalable, and efficient SAP applications and proven ability to troubleshoot and resolve complex issues, optimize performance, and enhance system functionality. Passionate about leveraging this diverse skill set to drive innovation and create impactful solutions in the ever-evolving landscape of technology.

Education

Masters in Computer Science

Missouri University of Science and Technology | GPA 3.33/4.0 | Rolla, MO

Expected: Dec 2024

B.E. in Information Technology

K.J. Somaiya Institute of Engineering & Information Technology | GPA 3.26/4.0 | Mumbai, India

Graduated: May 2019

Skills & Certificates

- **Languages:** Python | SQL | Java | R | C/C++
- **SAP ABAP:** Reports | BADI/BAPI | User Exits | Implicit/Explicit Enhancement | RFC | Smartforms | SAPScripts | Module Pool | LSMW | BDC | S4HANA
- **Miscellaneous:** Windows OS | MS Office | Linux | 3D Animation (Houdini FX) | VirtualBox
- **Web Technologies:** HTML | CSS | Front-end JavaScript | Apache Cordova
- Fundamentals of Deep Learning | NVIDIA

Oct 2023 – Present

Experience

Graduate Teaching Assistant (GTA)

Missouri University of Science and Technology | Rolla, MO

Jan 2023 – May 2023

- **Grading and Assessment:** Evaluated student assignments, quizzes, and exams to provide constructive feedback and ensure adherence to grading rubrics and course objectives.
- **Instructional Support:** Collaborated with course instructors to develop lesson plans, design assignments, and create supplementary materials to enhance student comprehension and engagement.
- **Facilitation of Learning:** Assisted in the delivery of course materials and supported student learning by leading discussions, conducting tutorials, and providing one-on-one assistance.
- **Communication Skills:** Demonstrated strong verbal and written communication skills in effectively conveying complex concepts and providing clear instructions to students from diverse backgrounds.

Application Development Analyst | SAP ABAP Developer

Accenture | Mumbai, India

Aug 2019 - Aug 2022

- **Strategic Deployment of Advanced Barcode Solutions for Global Compliance and Efficiency:** Led QR code implementation in legal documents (invoices, delivery notes) for USA, Switzerland, and Portugal, meeting government standards. Introduced 2D Data Matrix barcode for Germany's delivery notes with key data integration.
- **Expertise in SAP ABAP Programming:** Demonstrated proficiency in SAP ABAP programming by customizing Equipment Master transaction with client-specific fields via Screen Exit, developing dynamic reports for Pricing Condition Creation and Change history in OOABAP. Created a robust logic for merging SmartForms output with local PDFs, enabling PDF Print Previews, spool generation via ADS, and archiving, with email attachment functionality. Enhanced email formatting for delivery notes with HTML/CSS.
- **Cross-Functional SAP Collaboration and Issue Resolution:** Working together with teams spanning various SAP modules such as PP, MM, QM, SD, FI, and CO, I effectively tackled a range of tickets related to reports, SmartForms, SAPScripts, IDOC, and proxies. Through promoting fluid communication and collaboration, I facilitated the smooth running of business operations and boosted customer satisfaction.
- **Mentored and Trained Junior Engineers:** Took on a leadership role by mentoring and training junior engineers, fostering their professional growth and contributing to the organization's overall success.

Projects

Early Detection of Cardiac Disease using Machine Learning

Oct 2018 - April 2019

- Designed and implemented a decision tree classification model within a comprehensive project focused on real-time disease classification based on IoT-sourced parameters, with results visualized through a mobile application.
- Additionally, authored and **published a research paper** on the project's findings on SSRN at ICAST in April 2019. Paper link: <https://ssrn.com/abstract=3370813>

Chess AI: Project for Introduction to AI course

May 2023

- Researched and developed Chess AI which performs the next best move using the following algorithms:
 - Breadth-First Search and Depth-First Search
 - Time-Limited Iterative-Deepening Depth-Limited MiniMax (IDDL-MiniMax)
 - Time-Limited Iterative-Deepening Depth-Limited MiniMax with Alpha-Beta Pruning