

Saurabh Narendra Chaudhari

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EDUCATION

National University of Singapore

Master of Computing - Computer Science Specialization

- Dissertation: Temporal Personalization of Digital Intervention For Physical Activity

Singapore

August 2020 – June 2022

University of Pune - Smt. Kashibai Navale College of Engineering

Bachelor of Engineering - Computer Engineering

Pune, India

July 2013 – June 2017

PRIMARY SKILLS

Machine Learning, Deep Learning, Big Data, Data Science and Knowledge Discovery, Software Development, Research

WORK EXPERIENCE

Huawei Technologies

Algorithm Engineer

Singapore

March 2023 – Present

- Software Development:** Undertook optimization tasks resulting in a 3% improvement in click rate and a 69% reduction in data storage consumption. Analyzing the current business performance indexes and streamlining the data engineering pipelines.
- Machine Learning and Data Science:** Integrating state-of-the-art deep learning ranking models like DCN and DNN to further enhance the recommendation systems. Optimized and managed Hadoop data pipelines using Spark SQL queries and Scala scripts, conducted online A/B tests to ensure the availability of high-quality feature data store, and evaluated the model performance.

National University of Singapore

Research Associate

Research Assistant

Singapore

March 2022 – March 2023

January 2021 – March 2022

- Research:** Conducted a literature survey and published an in-depth scoping review. Subsequently, I published the results as 2 research papers in international journals and conferences in addition to my Master's Dissertation on personalization for physical activity interventions (recommendations).
- Software Development:** Developed an Android application using Polar SDK, AWS Amplify, and Amazon DynamoDB to collect raw sensor (Heart Rate and Accelerometer) data from Polar Verity Sense device via Bluetooth. This setup was used in a 3-arm randomized control trial (RCT) with 18 participants, and results showed a significant improvement in app usage and physical activity due to recommendation personalization.
- Machine Learning and Data Science:** Deployed an activity recognition classifier based on raw sensor data to create user activity profiles and generate temporal physical activity interventions using AWS Lambda and Amazon Pinpoint.

eQ Technologic

Software Developer

Augmented Data Analytics and eQubeBI OLAP Engine Core Team

Pune, India

July 2017 – July 2020

- Machine Learning:** Responsible for researching and analyzing the latest and innovative machine learning methodologies and incorporating them into eQubeBI products.
- Software Development:** Contributed to optimizing workflows and introducing advanced business requirements in the existing BI tool.
- Data Science and Knowledge Discovery:** eQ's platform now includes advanced capabilities such as statistical analysis, forecasting, and large-scale database management for Business Intelligence use cases. Additionally, the platform offers improved client interaction.
- Client interaction:** Demonstrated the new critical features of eQ's platforms to client firms such as Lockheed Martin, US Navy, and Northrop Grumman.

PUBLICATIONS

Chaudhari, S., Ghanvatkar, S., & Kankanhalli, A. (2022). Personalization of intervention timing for physical activity: Scoping review.

JMIR Mhealth Uhealth. <https://doi.org/10.2196/31327>

Chaudhari, S., Sawant, A., & Patil, R. (2017). Self-tuning approach for implementing a multidimensional recommendation system using pid, 1–4. <https://doi.org/10.1109/IPACT.2017.8244895>

Ghanvatkar, S., **Chaudhari, S.,** & Kankanhalli, A. (2022). Temporal personalization of a digital intervention for physical activity. *PACIS 2022*. <https://aisel.aisnet.org/pacis2022/29/>

Mhetre, P. N., Falle, M., Shukla, P., **Chaudhari, S.,** & Sawant, A. (2017). An approach for implementing a multidimensional recommendation system for online retail services or portals. *International Education and Research Journal*, 3(3). <http://ierj.in/journal/index.php/ierj/article/view/768>

INTERNSHIP

Persistent Systems Ltd.

Project Intern

Pune, India

June 2016 – June 2017

- Led a team to successfully conclude an industry-sponsored research project titled 'An Approach For Implementing A Multidimensional Recommendation System For Online Retail Services or Portals.'
- Published and presented the project research work at the IEEE conference i-PACT'17 held at Vellore Institute of Technology.
- Winner of Best Project in Artificial Intelligence and Machine Learning granted by the Department of Computer Engineering at Smt. Kashibai Navale College of Engineering.

TECHNICAL SKILLS

- **Operating Systems:** Windows, Linux, Android
- **Languages:** Python, Scala, Java, Kotlin, R
- **Machine Learning:** Pandas, NumPy, SciPy, Scikit-Learn, Matplotlib
- **Databases:** Hive, MySQL, Amazon DynamoDB
- **Amazon Web Services:** Amazon S3, AWS Lambda, Amazon CloudWatch, Amazon Pinpoint
- **Version Control:** Git, SVN
- **Others:** Apache Spark, Hadoop, AWS Amplify, Polar SDK, Redmine, Jira, IBM SPSS

POSITIONS OF RESPONSIBILITY

Robotics Club - Sinhgad Technical Education Society

Programming Team Lead

Pune, India

June 2014 – January 2016

- Supervised all the tasks within the programming and process optimization domain.
- Part of a committed multidisciplinary team focused on continual innovation and research in robotics which won multiple national and international awards.

AWARDS AND ACHIEVEMENTS

- Represented India in the International Robotics Challenge (IRC) 2016 held at the Indian Institute of Technology, Powai.
- Third position in RoboSapiens 2014, a robotics competition at the Indian Institute of Technology, Roorkee.
- Winner of the Best Startup Prize at a National Level Project Competition Convene 2015 sponsored by Switch Idea.
- Conducted Meteor 2016, a hands-on robotics workshop organized by the Robotics Club of Sinhgad Technical Education Society.