MELNITA DABRE

https://github.com/Melnita| mdabre@umass.edu | +91 7977731181 | www.linkedin.com/in/melnita-dabre

EDUCATION

University of Massachusetts, Amherst, USA **Exp grad 2022**
Masters of Science in Computer Science **(CGPA: -/4)**
Relevant Coursework: Advanced Natural Language Processing

Fr. Conceicao Rodrigues College of Engineering, Mumbai, India **Jun 2017**
Bachelor of Engineering in Information Technology **(CGPA: 3.6/4)**
Relevant Coursework: Statistics and Calculus, Big Data Analytics, Data Mining and BI, Artificial Intelligence, Data Structures and Algorithm Analysis, Advanced Database Management Systems

SKILLS

- Languages & Technologies: C++, Python, MySQL, JavaScript, Django, PyTorch
- Analytics and Automation Tools: Microsoft Excel, Tableau, Automation Anywhere

PROFESSIONAL EXPERIENCE

Anmol Computech, Mumbai, India **Sep 2019 - Jul 2020**
Software Developer
- Developed an in-house Business Process Management tool capable of modeling dynamic business rules, implemented as a rich interactive web application using JSP and jQuery.
- Implemented various Continuous Improvement initiatives such as automating client onboarding workflows like KYC using Python scripts deployed on AWS.

ZS Associates, Pune, India **Jul 2017 - Aug 2019**
Associate
- Developed high-level Python API to automate a proprietary SQL based ETL Tool.
- Structured sales force bonus payout plans for over 30 markets spanning across APAC and EEMEA.
- Performed information-driven diagnostic examination to help clients assess incentive compensation and promote sales force effectiveness.
- Onboarded key client markets in the project with annual revenue potential of over $ 100,000.
- Implemented forecasting models such as Autoregressive Integrated Moving Average, ADDWINTERS, etc. to predict sales data.

Hewlett Packard, Mumbai, India **Jun 2016 - Jul 2016**
Datawarehouse Intern
- Developed Business Intelligence reports on basic key performance indicators like growth rate utilized for operational analysis by client - Bank of India.
- Designed analytical dashboards in SAP BO – Web Intelligence for basic performance and positional analysis.

The Apprentice Project, India **Oct 2018 - Present**
Coding Teacher/Mentor
- Teaches basic programming constructs using MIT Scratch to underprivileged students.
- Designs lesson plans for all classes.
- Mentored a group of students who won the TAP Hackathon 2018 conducted in Pune.

PROJECTS

Sentimental Visual Question Answering (NLP)
- Working on modeling a Sentimental Visual Question Answering network that makes use of the sentiment information that the image expresses and textual information, so that the answers could be more affective and exhaustive.

Home Automation System using Artificial Intelligence
- Prototyped a Home Automation system consisting of an array of relay switches and other hardware components.
- Implemented NLP to enable wireless control of the system through voice commands.
- Technologies used: Raspberry Pi, Arduino, Jasper
- Published a paper on the same in 'International Journal for Research in Applied Science and Engineering Technology (IJRASET)' in August, 2017. ISSN No 2321-9653. Volume No 5, Issue VIII.

ACHIEVEMENTS AND ACTIVITIES

- Won the 'Best User Interface' at ZS Quest Hackathon '17 for creating an interactive prototype for the personalized analytics application for sales representatives.
- Received 'Opscars' Award for excellence in project setup and operations for the project 'Emerging Markets Sales Incentive Program (EMSIP)'.
- Obtained a certificate of appreciation for valuable contribution to EMSIP project.
- Participated as Team Captain and ranked 18th among 110 colleges and universities in 'ABU Robocon 2017'. Designed a disc throwing robot in 7 spots with different heights and areas using OpenCV and MOSSE track algorithm.