

# MELNITA DABRE

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## EDUCATION

<b>University of Massachusetts, Amherst, USA</b>	<b>Exp grad 2022</b>
Masters of Science in Computer Science	<b>(CGPA: -/4)</b>
Relevant Coursework: Advanced Natural Language Processing	
<b>Fr. Conceicao Rodrigues College of Engineering, Mumbai, India</b>	<b>Jun 2017</b>
Bachelor of Engineering in Information Technology	<b>(CGPA: 3.6/4)</b>
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

<b>Anmol Computech, Mumbai, India</b>	<b>Sep 2019 - Jul 2020</b>
<i>Software Developer</i>	
<ul style="list-style-type: none"><li>• Developed an inhouse Business Process Management tool capable of modelling dynamic business rules, implemented as a rich interactive web application using JSP and jQuery.</li><li>• Implemented various Continuous Improvement initiatives such as automating client onboarding workflows like KYC using Python scripts deployed on AWS.</li></ul>	
<b>ZS Associates, Pune, India</b>	<b>Jun 2017 - Aug 2019</b>
<i>Associate</i>	
<ul style="list-style-type: none"><li>• Developed high level Python API to automate a proprietary SQL based ETL Tool.</li><li>• Structured sales force bonus payout plans for over 30 markets spanning across APAC and EEMEA.</li><li>• Performed information driven diagnostic examination to help clients assess incentive compensation and promote sales force effectiveness.</li><li>• Onboarded key client markets in the project with annual revenue potential of over \$ 100,000.</li><li>• Implemented forecasting models such as Autoregressive Integrated Moving Average, ADDWINTERS, etc. to predict sales data.</li></ul>	
<b>Hewlett Packard, Mumbai, India</b>	<b>Jun 2016 - Jul 2016</b>
<i>Datawarehouse Intern</i>	
<ul style="list-style-type: none"><li>• Developed Business Intelligence reports on basic key performance indicators like growth rate utilized for operational analysis by client - Bank of India.</li><li>• Designed an analytical dashboards in SAP BO – Web Intelligence for basic performance and positional analysis.</li></ul>	
<b>The Apprentice Project, India</b>	<b>Oct 2018 - Present</b>
<i>Coding Teacher/Mentor</i>	
<ul style="list-style-type: none"><li>• Taught basic programming constructs using MIT Scratch to underprivileged students of 8<sup>th</sup> and 9<sup>th</sup> grade.</li><li>• Mentored a group of students who won the TAP Hackathon 2018 conducted in Pune.</li><li>• Designed lesson plans for all classes.</li></ul>	

## PROJECTS

<b>Sentimental Visual Question Answering (NLP)</b>
<ul style="list-style-type: none"><li>• Working on modelling 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.</li></ul>
<b>Home Automation System using Artificial Intelligence</b>
<ul style="list-style-type: none"><li>• Prototyped a Home Automation system consisting of an array of relay switches and other hardware components.</li><li>• Implemented NLP to enable wireless control of the system though voice commands.</li><li>• Technologies used: Raspberry Pi, Arduino, Jasper</li><li>• 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.</li></ul>

## 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 18<sup>th</sup> 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.