

# Anant Moudgalya

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Available: May-Dec 2023 (Internship/Co-op) | May 2024 (Full-time)

## EDUCATION

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### Northeastern University

Boston, MA

- *Masters in Computer Science*

Sep 2022 - Expected May 2024

*Related courses: Program Design Paradigm, Database Management Systems*

### PES Institute of Technology, South Campus

Bengaluru, India

- *Bachelor of Engineering, Computer Science; GPA: 8.32/10.0*

Aug 2020

*Related courses: Data Structures, Algorithms, Operating Systems, Cloud Computing, Machine Learning*

## RELEVANT SKILLS

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- **Web Development:** Django, Ruby on Rails, ReactJS,HTML, CSS
- **Languages:** Python, Ruby, Java, C++, Bash, JavaScript, SQL
- **Database:** MySQL, PostgreSQL, AWS Aurora, MongoDB
- **Tools & Cloud Platforms:** Git, Docker, AWS, GCP, Kubernetes, CircleCI
- **Data Mining:** Pandas, Numpy, Keras

## EXPERIENCE

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### Amagi Corporation

Bengaluru, India

Senior Software Engineer

Jul 2020 - Jul 2022

- Identified issues causing slow API response times and implemented async tasks and multi-threading to improve response time from seconds to 100 ms on an internal project assigned.
- Devised CI/CD Pipelines for both projects on CircleCI to reduce test and deployment efforts of the team from 7 days to 10 minutes
- Engineered a comprehensive monitoring solution for the internal tool by enhancing existing API logs on Ruby on Rails, log aggregation on CloudWatch, leveraging AWS OpenSearch for monitoring and serverless functions on AWS Lambda to create API usage reports from these logs
- Led an independent effort to migrate multiple projects handled by the team to Kubernetes, leveraging Helm and Docker, deployed on Amazon EKS to improve availability to 99.9%
- Discovered poor testing coverage on the internal project in RoR as well as a Django Backend project, wrote unit tests and ensured code coverage upto 95%

### University of Massachusetts Amherst

Amherst, MA

Research Associate - Prof. Alexandra Meliou

May 2020 - Jun 2020

- Explored multiple research papers related to LDA and Topic Modelling for Topic Based summarization as a member of the SuDocu project team

### CimplyFive Corporate Secretarial Services

Bengaluru, India

Software Development Intern

Jan 2020 - Jun 2020

- Developed a standalone desktop application to automate the labor intensive routine of classification and upload of digitized legal documents reducing days of effort to upto 5 minutes, built using Python and packaged using PyInstaller.
- Handled the task of classifying various legal documents by financial year by building a custom, natural language date parsing module to extract dates of any format, from plain text within 800 milliseconds

## ACADEMIC PROJECTS

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- **A Comparative Study of Model Free Learning Methods:** ISBN: **978-981-15-3383-9**. Research paper comparing 3 model free reinforcement learning methods, and their performance while playing a game. This paper won the **Best Paper Award** at AMLTA 2020. (Link)
- **Moneyball : All Star Predictor:** Built a linear regression model to predict All-Star batters and starting pitchers in that particular MLB season with 76% accuracy. Debunked the theory behind the movie Moneyball in terms of simple linear regression models to find out how the Oakland Athletics constructed their roster to make the playoffs in 2002. (Link) (Blog Post)
- **VTU Results Crawler:** Developed a web crawler using Selenium to gather University (VTU) results from their website. Solved multiple challenges presented such as breaking their captcha using tesseract OCR and handling shuffled rows in the results using regex. (Link)

## CERTIFICATIONS

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- **AWS Certified Solutions Architect - Associate:** (Certificate)
- **CS50x - Harvard : Introduction to Computer Science (Verified):** (Certificate)