# Abhishek Rajendra Prasad

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## EDUCATION

**The University of Texas at Dallas, TX, USA** — **Aug 2021 - May 2023**
Master of Science, Computer Science — GPA: 4.0/4.0
*Recipient of Jonsson School Graduate Study Scholarship*

**Indian Institute of Technology(IIT) Dharwad** — **Aug 2016 - June 2020**
Bachelor of Technology, Computer Science and Engineering — GPA: 8.38/10.0

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, JavaScript, SQL, PHP
**Frameworks:** Spring Boot, Flask, Kafka, Kibana, Elasticsearch, Keras, PyTorch
**Tools:** React, React Native, Hadoop, PySpark, GCP, Kubernetes, OpenCV, Android Studio

## EXPERIENCE

**Graduate Research Assistant - IRVL - *Intelligent Robotics and Vision Lab*** — **Aug 2021 - Present**
• Using State-of-the-Art Transformer based Deep Learning techniques to generate grasp for 2-finger robots to grasp various objects and use them to perform different tasks autonomously. **Tools:** *PyTorch, ROS*

**Summer Analyst - *Goldman Sachs, Dallas, Texas*** — **June 2022 - Aug 2022**
• Developed a single-page frontend application to include the Customer Preferences for all of the products used at Marcus. **Tools:** *React*
• Created an API contract for ledger money movement to resolve customer disputes. **Tools:** *Spring Boot*
• Collaborated with 5 other interns to pitch an idea on a tool to improve customers' financial health and presented it to employees and leadership of the firm.

**Software Engineer - *AirAsia, Bengaluru*** — **July 2020 - July 2021**
• Introduced ETag feature in microservices, helping to validate the cache in the mobile app; making it 20% faster and consuming 40% lesser bandwidth. **Tools:** *Spring Boot*
• Export React widgets as Vanilla JavaScript using Webpack to enable cross-sell capability across different Tech Stack-based websites(including React Native) increased profits by 10% and reusability brought down the development time from weeks to hours. **Tools:** *Webpack*
• Introduced REST API microservice to give user-specific recommendations for order of carousels on the homepage by recommendation model to give real-time relevant data to users. Improved click-through rate by 40%. **Tools:** *Python*
• Created a Seamless way to update/create data for the homepage in Content Stack using REST API by taking data from google sheets for all languages; saving 70% resource consumption. **Tools:** *Airflow, Spring Boot*

**Software Engineer Intern - *Engimat Simulation Private Limited, Bengaluru*** — **May 2019 - July 2019**
• Developed a new approach using python-OpenCV towards feature extraction from 2D engineering drawings and reconstruction it to 3D CAD models and hosted on cloud service. ( Certificate) **Tools:** *Android Studio, GCP, Firebase*
• Developed an Android Application to use the above cloud service and made a public library of 3D Models.

## PROJECTS

**Twitter Sentiment Analysis and Visualization** ( GitHub) — **Apr 2022**
• Perform Sentiment analysis on recent movie hashtags on Twitter streaming data in real-time using *Apache Spark Streaming*, *Kafka*, *Elasticsearch*, and *Kibana* to visualize the crowd review.

**Analysis of Actor-Critic Algorithms And its Variants** — **Feb 2020 - Apr 2020**
• Implementing different variants of Actor-Critic algorithms and saw a steady learning curve when we incorporated Konda's paper technique to actor-critic on Atari Environments. ( Paper link)

**Chrome Extension for YouTube** ( GitHub) — **Feb 2020**
• Built a chrome extension to navigate to a required section in YouTube video and also give out a sentiment analysis for a given word or phrase.

## PUBLICATION


Bangalore Harish, A. and **A. R. Prasad** (2021). "Automated 3D solid reconstruction from 2D CAD using OpenCV". In: *arXiv.org*.