

# Prabhav Singh

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3900 N Charles Street, Baltimore MD, 21218

## EDUCATION

### Johns Hopkins University

*Masters of Science (Thesis) - Computer Science*

- *Specialization:* Human Language Technologies
- *Research Assistant:* Center for Speech and Language Processing (CLSP)

Baltimore, MD

*Expected May 2026*

### Delhi University

*Bachelor of Engineering - Electrical Engineering*

- GPA: 3.83, Class Rank: 4/90
- Undergraduate Research Assistant: APC Lab, NSIT

Delhi, India

*August 2022*

## EXPERIENCE

### Graduate Research Assistant

*CLSP, JHU*

- Part of **Prof. Najim's** lab at CLSP JHU - Working on multimodal methods for Speaker Diarization in Low Quality Audio and Video Inputs.
- Previously worked on studying the **complementarity of multimodality for emotion recognition** in Mild-Cognitive Impairment Individuals.

August 2024 – Present

*Baltimore, MD*

### Machine Learning Engineer

*Sapper.ai*

- Part of the **founding team** at Sapper - A startup building products to automate document processing workflows for clients across the globe.
- Responsible for developing **glazeDONUT** - An OCRless document extraction transformer. The development was an **Industry first**. Reduced cost of extraction by **65% per page and improved accuracy by 30%**.
- Drove the ML efforts for 4 Clients to Production. The projects today contribute to **60% of the firm's revenue**.

January 2023 – August 2024

*Bangalore, India*

### Data Scientist - I

*Ola*

- Worked on building and engineering data pipelines as part of the EDP team (Data Platform) for **customer facing real-time analytics** for multiple verticals at Ola.
- Migrated Ola's nationwide ride allocation ML Models to a **KubeFlow Platform** to enable MLOps. and Managed over **2PB Data migration** from Azure to AWS to **reduce costs by 30%**.

July 2022 – January 2023

*Bangalore, India*

## PUBLICATIONS

- **Singh, P.**, Srivastava, R., Rana, K., & Kumar, V. (2021, October). A multimodal hierarchical approach to speech emotion recognition from audio and text. *Knowledge-Based Systems*, 229, 107316. **Link**
- Srivastava, R., **Singh, P.**, Rana, K., & Kumar, V. (2022). A topic modeled unsupervised approach to single document extractive text summarization. *Knowledge Based Systems*, 246, 108636. **Link**
- **Singh, P.**, Srivastava, R., Rana, K., & Kumar, V. (2023). SEMI-FND: Stacked ensemble based multimodal inferencing framework for faster fake news detection. *Expert Systems With Applications*, 215, 119302. **Link**

## SKILLS

**Languages:** Python, C++, SQL (Postgres), NoSQL (MongoDB)

**Frameworks:** PyTorch, Tensorflow, MXNet, Kaldi

**ML Areas:** Statistical, Language Processing, Speech Processing, Transformers, Deep Learning

**Platform/Infra & Cloud:** Apache Flink, Kubernetes, Docker, Pinot, MLFlow, KubeFlow, AWS, Microsoft Azure

## ACTIVITIES AND AWARDS

- **Premier Research Excellence Award** (2021 & 2022): Awarded by Delhi University for publishing 3 papers in a journal with  $IF \geq 8$ . Included Semester Scholarship for Fall 2022 and Fall 2021.
- **3rd Position (Gridlock 2020)**: Awarded by Flipkart National Hackathon for developing a fashion trend predictor for the E-Commerce Giant in India.
- **Member and Instructor - IEEE Delhi University**: Conducted multiple classes for students interested in technology, specifically in topics like Python Programming and AI.