

# Astha Rastogi

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Results-driven individual with **expertise in machine learning engineering and full-stack development** with hands-on experience in developing ML models, implementing algorithms, and building scalable web applications. My international experience has strengthened my technical abilities and broadened my understanding of global challenges and innovative approaches. Now, I am eagerly seeking a challenging role that values innovation and embraces new technologies.

## EDUCATION

**B.E. Electronics and Instrumentation,**  
*BITS Pilani, Pilani, India, 2018-2022*

Graduated First Division

## SKILLS

### Languages

Python, C, C++, JavaScript, TypeScript,  
MATLAB, HTML, CSS, MySQL

### Frameworks

Django, React, Keras, Tensorflow

### Concepts

Machine Learning, Neural Networks, Computer Vision, NLP

### Soft Skills

Critical Thinking, Problem Solving, Attention to Detail, Adaptability, Time Management

## CERTIFICATIONS

**Artificial Intelligence and Internet of Things,** *IIT Kanpur*

**Neural Networks,** *Andrew Ng*

## EXTRA CURRICULARS

**Collegiate Swim Team, Vice Captain**

Developed strong teamwork, leadership, and organizational skills.

**Department of Photography**

Captured and covered college festivals through aesthetic and portrait photography.

Led merchandise creation, design, and sales using the content to raise funds during the events.

## PROFESSIONAL EXPERIENCE

**Full Stack Developer, Aalto University**

06/2022 – Present | Helsinki, Finland

- Developed and transformed **user interface research into a market-ready industrial product**, enabling designers to collaborate and co-design with an automated tool.
- Implemented end-to-end model creation as a **full-stack developer** using technologies like ReactJS, Typescript, Google Protocol Buffers, and Python.
- Conducted **in-depth research on machine learning models** used as the foundation for the product, gaining valuable insights into their functionality and application.
- **Adapted quickly to changing requirements and priorities**, displaying flexibility and resourcefulness in a **fast-paced, early-stage startup**.

**Machine Learning Intern, Incampus Ltd.**

08/2020 – 09/2020 | Delhi, India

- Developed a **robust content-based recommendation system** from the ground up.
- Gained proficiency in **utilizing machine learning and natural language processing techniques**.

**Web Development Intern, Bharti Airtel Ltd.**

05/2019 – 07/2019 | Gurgaon, India

- Honed skills in **full-stack web development** utilizing technologies such as HTML, CSS, JavaScript, AngularJS, NodeJS, and MySQL through successful delivery of the project.
- Gained valuable insights into corporate culture, **fostering a strong understanding of professionalism and teamwork**.

## PROJECTS

**Machine Learning Based Event Extraction from Unstructured Data, Bachelor's Thesis**

07/2021 – 12/2021

- Utilized **Interactive Machine Learning** and **Machine Reading Comprehension** techniques to develop an innovative model at the **University of Manchester**.
- Created a system that **extracts events from unstructured online data** using a semi-supervised approach, generating machine-readable event templates without pre-existing annotations.
- **Trained the model to ask relevant questions**, improving its accuracy in structuring event information.
- Inculcated **strong research, problem-solving, and critical thinking skills** through collaborative work with academic mentors and experts, **enhancing communication, teamwork, and model design abilities**.

**Vision Transformers for EEG-Based Emotion Recognition**

07/2021 – 10/2021

- **Led a two-member team** in creating a modified vision transformer, classifying emotions using EEG signals. Collaborated to design and implement a **robust model architecture, surpassing state-of-the-art performance**.
- Acquired experience in **conducting independent research, designing experiments, and interpreting results** in an academic setting.