

# Aniket Pradhan

SOFTWARE DEVELOPMENT ENGINEER

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## Personal Profile

A nerd working at Adobe, as a Software Development Engineer. Currently working on the Streaming workflows in the Adobe Experience Platform, to segment billions of different "profiles" within minutes. Zealous about Research and Development, with a few publications at major conferences around Optical Network Communication. Fascinated by Machine Learning and Data Engineering roles.

## Education

### Indraprastha Institute of Information Technology - Delhi

Delhi, India

B. Tech in Electronics and Communications Engineering

Aug 2017 - May 2021

- **Courses:** Machine Learning, Deep Learning, Speech Recognition and Understanding, Game Design and Development, Software Development using Open Source, Digital Audio, Digital Image Recognition

### Father Agnel School

Delhi, India

High School

2015 - 2017

- Passed with Distinction
- Specialised in Physics, Chemistry, and Maths with Computer Science

## Work Experience

### Adobe

Noida, India

Software Development Engineer

Jul 2021 - Present

- Collaborated with a small team to work on different Streaming workflows, responsible for segmenting user profiles in real-time
- Took ownership of multiple small projects that aid the Streaming workflows
- **Technical Skills:** Java, Scala, Apache Kafka, Apache Spark, Apache Flink, Microsoft Azure Cosmos DB, Kubernetes, Scripting, Git.
- **Soft Skills:** Ownership, Teamwork, Time Management, Communication, Presentation skills.

### Adobe

Noida, India

Product Intern

May 2020 - July 2020

- Worked with the Digital Experience team @ Adobe
- Worked on a closed domain question and answering framework, using the state of the art methods of natural language processing methods.
- Designed to be flexible and modular. Suitable for Adobe Experience Platform's Documentation
- **Technical Skills:** Python with Tensorflow and PyTorch XLA (for Google TPU), Git.
- **Soft Skills:** Leadership, Time Management, Communication, Logical Thinking.

### RealVol

New Delhi, India

UI Designer Intern

May 2018 - July 2018

- Worked on the design and the UI for the product, RealVol
- **Technical Skills:** Unity VR, C#, Git.
- **Soft Skills:** Time Management, Communication.

- Created and implemented simple animations for Android.
- Implemented scalable widgets for Android Applications.
- **Technical Skills:** Android Studio, Java, Kotlin
- **Soft Skills:** Time Management, Communication.

## University Projects

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### Efficient Filling of C+L Bands for an Optical Network

Indraprastha Institute of Information Technology - Delhi and British Telecom

Delhi, India

May 2019 - May 2020

- Studying the non-linear effects faced by the optical signal in a multi-hop path.
- Analyzing link margins in an optical network and studying the methods to reduce them in a backbone optical network.
- Comparing the benefits offered by a multi-fiber optical network and a multi-band optical network.
- **Technical Skills:** Python, LaTeX.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

### Deep Neural Network Based Predictions of Protein Interactions using Primary Sequences

Indraprastha Institute of Information Technology - Delhi

Delhi, India

Oct. 2018 - Feb. 2019

- Written a tool in Python to automate data collection and organize the data in a pretty SQL table.
- Worked on and implemented Deep Structured Semantic Network (DSSM) in Python using Tensorflow
- Worked on an approach to simplify querying of similarity based protein sequences, using supervised methods
- **Technical Skills:** Python with Tensorflow, SQL.
- **Soft Skills:** Presentation skills, Teamwork, Logical Thinking.

### IoT Smart Lock

Indraprastha Institute of Information Technology - Delhi

Delhi, India

Dec. 2017 - Apr. 2018

- Automated lock, which can be controlled securely via the Internet.
- Provides a key less access to the lock, with a robust and modular tech stack.
- Secure communications between the clients and the host, using TLS 1.2
- It was a part of the Introduction to Engineering Development course.
- **Technical Skills:** C, Python, Arduino.
- **Soft Skills:** Report writing, Product Design, Logical Thinking.

## Publications

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- T. Ahmed, S. Rahman, A. Pradhan et al, "C to C+L Bands Upgrade with Resource Re-provisioning in Optical Backbone Networks", 2021 Optical Fiber Communications Conference and Exhibition (OFC), 2021, pp. 1-3.
- R K. Jana, A. Mitra, A. Pradhan et al, "When Multiband Elastic Optical Networks Becomes More Economical Than Multifiber Elastic Optical Networks?", European Conference on Optical Communication 2020, DOI: 10.1109/ECOC48923.2020.9333276
- A. Mitra, D. Semrau, N. Gahlawat, A. Pradhan et al, "Capacity Benefits of Operation Over C+L Band Elastic Optical Network in the Indian Network Scenario", IEEE ANTS 2019, DOI: 10.1109/ANTS47819.2019.9117992

## Posters

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- A. Sinha, A. Pradhan, Q. Fang et al, "Comp-NeuroFedora, a Free/Open Source operating system for computational neuroscience: download, install, research", Org. for Computational Neurosciences 2020

## Skills

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<b>Programming</b>	Java, Scala, Python (Tensorflow, PyTorch, NumPy, Pandas etc.), C/C++, HTML/CSS, JavaScript, SQL.
<b>Miscellaneous</b>	Linux, Shell (Bash/Zsh), Apache Kafka, Apache Spark, Apache Flink, $\LaTeX$ , Git.
<b>Soft Skills</b>	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

## Positions of Responsibility

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- 2020 **Byld Admin**, Indraprastha Institute of Information Technology - Delhi
- 2019 **Web Admin**, Summer Camp @ Indraprastha Institute of Information Technology - Delhi
- 2019 **Volunteer**, Summer Camp @ Indraprastha Institute of Information Technology - Delhi
- 2018 **Web Admin**, Research Showcase @ Indraprastha Institute of Information Technology - Delhi
- 2018 **Event Head**, Student Breakthrough, Research Showcase @ Indraprastha Institute of Information Technology - Delhi
- 2018 **Event Head**, RoboWars, ESYA @ Indraprastha Institute of Information Technology - Delhi

## Languages

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- English** Professional proficiency
- Hindi** Native proficiency
- French** Bilingual proficiency