# Arunav Dey

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## Education

**PES University** — Bengaluru, KA, India
*Bachelor of Technology; CGPA: 8.7/10.0* — *Jun. 2023, expected*

**Christ Junior College** — Bengaluru, KA, India
*Pre-University in Science; Percentage: 88.7%* — *May 2019*

**Baldwin Boys' High School** — Bengaluru, KA, India
*ICSE in Science; Percentage: 92.3%* — *May 2017*

## Experience

**Web Development Intern** — Jan. 2023 – Present
*Hiver* — *Bengaluru, KA, India*

- Handled upgradation of a package from Node 16 to Node 18
- Developed the frontend for multiple features using React and Redux
- Worked on migrating BackboneJS code to ReactJS

**Undergraduate Teaching Assistant** — Jan. 2023 – Jun. 2023
*PES University* — *Bengaluru, KA, India*

- Created coding problems related to Design and Analysis of Algorithms
- Created solutions for all such questions and included test cases

**Artificial Intelligence and Machine Learning Intern** — Jun. 2022 – Aug. 2022
*Pronisi Inc.* — *Bengaluru, KA, India*

- Explored human-pose models such as BlazePose
- Worked using Python libraries like OpenCV, MediaPipe and Torch
- Performed data collection and preparation using Python and FFmpeg
- Tested code using Pytest

## Projects

**Discrimination of ADHD using LSTMCaps** | *Python, TensorFlow, Keras, MATLAB* — Jan 2022 – Present

- Created a Capsule-LSTM network for the deep learning model using TensorFlow and Keras
- Performed data cleaning and data preprocessing on the ADHD-200 dataset using MATLAB
- Used feature extraction techniques such as ReHo and fALFF using Python

**Photo to Painting using CycleGAN** | *Python, TensorFlow, Keras* — Jan. 2022 – May 2022

- Implemented a CycleGAN model
- Trained the CycleGAN model to convert a photo to a painting using style transfer
- Collected and prepared data as paintings from multiple artists
- Explored Google Colab while training and using the model

**Railway Reservation System** | *Java, Spring, ReactJS* — Jan. 2022 – May 2022

- Developed the backend using Spring and the frontend using ReactJS
- Used and explored SQLite for the database

**Food Delivery Web Application** | *NodeJS, ReactJS, ExpressJS, Firebase* — Oct. 2020 – Dec. 2020

- Developed the backend and middleware using NodeJS and ExpressJS
- Develoepd the frontend using React
- Used and explored Firebase for the database

## Technical Skills

**Languages**: Python, JavaScript, TypeScript, HTML/CSS, C/C++, Java, PostgresQL
**Frameworks**: MERN, NodeJS, FastAPI
**Developer Tools**: Git, Docker, Kubernetes, Google Cloud Platform, VS Code, Linux, Vim
**Libraries**: ReactJS, Redux, pandas, NumPy, Matplotlib, TensorFlow, Keras