Piyush Harsh 🔗

DEPARTMENT OF ELECTRICAL ENGINEERING

Pursuing Bachelor's degree in Electrical Engineering from BIT Sindri, Dhanbad. Skilled in electrical engineering, problem-solving, graphic designing, and machine learning. A highly organized, enthusiastic, and hard-working individual looking forward to an internship to groom my skills gain practical experience and exposure.

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D.O.B.: 05/06/2001 📅

ACADEMIC DETAILS

Year	Degree	Board	Institute	GPA/Marks (%)
2023	B. Tech	Jharkhand University of Technology	B.I.T. Sindri, Dhanbad	8.81
2019	Intermediate	Central Board of Secondary Education	Rajkamal Saraswati Vidya Mandir, Dhanbad	93%
2017	Matriculation	Indian Certificate of Secondary Education	De Nobili School, CMRI, Dhanbad	93.4%

ACHIEVEMENTS

- **Finalists – Toy Tales '21**
  *Qualified for the finals of Toy Tales '21, organized by **DIC, IIM Kashipur.***
- **Finalists – Toycathon '21**
  *Qualified for the Grand Finale of Toycathon '21, organized by **MHRD, Govt. Of India.***
- **Top 5 – Techie of the Year '19**
  Secured a position in the Top 5 of Techie of the year '21, organized by Model Club, BIT Sindri.
- **Delegate/Speaker – UN75 Dialogue**
  Participated in UN75 dialogue.

PROJECTS

- Bearing Fault Detection using Machine Learning
  - Use of machine learning algorithm to detect the fault in the bearings. *Currently working
  - Dataset: NASA PCoE Datasets, provided by the Center for Intelligent Maintenance Systems (IMS), University of Cincinnati.

- Tutor AI
  - Participated in Toy Tales 2021, organized by DIC, IIM Kashipur, and supported by the Ministry of Education (MoE).
  - Tutor AI is a unique learning web application for kids which not only inculcates the learning spirit in children but also enhances their analyzing and thinking skills along with play. The app uses ML algorithms for object detection and visualisation of objects.
  - GitHub Link: https://github.com/piyush-harsh-15/Tutor-AI

- Sentiment Analysis (NLP | Python)
  - Sentiment Analysis of Twitter, Hotel Reviews, Newspaper Articles using Python and Machine Learning.
  - GitHub Link: https://github.com/piyush-harsh-15/Sentiment-Analysis

- ChannaGuru
  - Participated in TOYCATHON 2021, organized by MHRD, Govt. Of India.
  - ChannaGuru, inspired by Karnataka's famous Channapatna toys, is a uniquely designed Indian toy, which teaches the child about Indian culture, and science & technology. It asks questions and waits for the child to answer.

SKILLS AND INTERESTS

- **Microsoft Tools**: *MS Word, MS PowerPoint, MS Excel*
- **Languages**: *English, Hindi*
- **Programming Languages**: *C, Python, MATLAB, Java*
- **Hard Skills**: *Embedded Systems, Induction Motor, Arduino UNO*
- **Soft Skill**: *Leadership, Team Work, Managerial Skills, Communication Skills*
- **Simulation Software**: *Autodesk Eagle, TinkerCAD, Fritzing*
- **Development**: *Frontend Development (HTML, CSS)*
- **Creative Writing, Content Writing**
- **Graphic Designing, UI Designing**
- **Adobe Software**: *Adobe Illustrator, Adobe Photoshop, Adobe XD, Adobe Aftereffects*
- **Other Technologies**: *Jupyter Notebook, MySQL, Postgresql, Canva*
- **Research Interest**: *Artificial Intelligence, Data Science, Power System, Smart Grid, Microcontrollers*

COURSES/CERTIFICATIONS

- Excel Skills for Business: Essential – *Coursera*
- Python for Everyone (Specialisation) – *Coursera*
- Introduction to AI – *Reaktor*
- Introduction to Programming with MATLAB – *Coursera*
- The Arduino Platform and C Programming – *Coursera*
- Introduction to the IoT and Embedded Systems – *Coursera*
- Introduction to Embedded System Design – *NPTEL*

WORK EXPERIENCE

- **Research Intern** *(Qatar University)*
  AI for the anomaly detection in IoT
- **Research Intern** *(IIT BHU)*
  Linear Induction Motor
- **Machine Learning Intern** *(Decibels lab Pvt. Ltd.)*
  Supervised Machine Learning Models
- **Graphic Design Intern** *(yourFirstAd)*
  Creative and Graphic Designing

TRAINING

- Siemens *(01/2021 - 02/2021)*
  Subject: Basics of Induction Motor
- Tata Power Skill Development Institute *(01/2021 - 02/2021)*
  Subject: TVAS Certified Electrical Skills Professional
- Bharat Coking Coal Limited (BCCL) *(03/2021 - 04/2021)*
  Subject: Transmission and Distribution of Power

ON-GOING COURSES

- Deep Learning – *Coursera*
- Tensorflow – *Self-paced*
- SQL – *Self-paced*
- Data Structures and Algorithms – *Self-paced*