Amul **Chourasia**

ASSISTANT PROFESSOR

Bhubaneswar, Odisha

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Work Experience

Assistant Professor   *Bhubaneswar, India*

INSTITUTE OF TECHNICAL EDUCATION AND RESEARCH (ITER), SOA   *June 2023 - Present*

- Taught the Introduction to Computer Programming using Java course for 1st sem students, fostering a strong foundational understanding of object-oriented programming
- Guided 2nd sem students through Data Structures and Algorithms in Java, emphasizing problem-solving techniques, algorithm optimization, and efficient data handling strategies
- Instructed in FDP "Python Programming From Modular Basics to Advanced Techniques" training on Python programming, covering both foundational and advanced techniques
- Played a pivotal role as part of the evaluator panel, providing insightful feedback and mentoring participants in the development and innovation process during the high-stakes 24-hour Institute level Hackathon competition

Research Intern   *Guwahati, Assam*

INDIAN INSTITUE OF INFORMATION TECHNOLOGY GUWAHATI   *May 2022 - July 2022*

- Conducted extensive research for the survey segment by reviewing ten academic papers, preparing comprehensive reports on the topic "Detecting COVID-19 using Deep Learning"
- Collaborated on the utilization of CNN deep learning models such as VGG-16 and ResNet

UI/UX Designer Intern   *Guwahati, Assam*

THE DAIRING COMPANY   *January 2022 - April 2022*

- Contributed to designing and delivering user-friendly online UI/UX widget components for internal teams, utilizing HTML, CSS, JavaScript, and jQuery to ensure seamless integration into various web pages and applications
- Leveraged modern front-end technologies such as Ember.js, HTML, and jQuery to significantly improve product usability and streamline the user experience, making applications more intuitive and efficient for end-users

Education

Indian Institue of Information Technology Guwahati   *Guwahati, Assam*

MTECH IN COMPUTER SCIENCE & ENGINEERING, 8.05/10.00   *August 2021 - May 2023*

University Institute of Technology, Barkatullah University   *Bhopal, India*

BACHELOR IN ENGINEERING, 7.63/10.00   *2016-2020*

Shri Ram H.S. School   *Madhya Pradesh, India*

HIGHER SECONDARY EDUCATION (CLASS 12), 81.6%   *2014-2016*

Kendriya Vidyalaya Seoni   *Madhya Pradesh, India*

CLASS 10, 7.00/10.00   *2014*

Publication

IEEE Region 10 Conference (TENCON 2023)   *Chiang Mai, Thailand*

A CHOURASIA, V NAOSEKPAM AND N SAHU. ATTENTION-FUSED SHALLOW NETWORK FOR UNDERWATER OBJECT DETECTION   *October - November 2023*

- Developed a two-stage method utilizing PCA-fusion for image enhancement and an attention-fused lightweight model for object detection, achieving superior performance on the URPC2019 dataset
- DOI: https://ieeexplore.ieee.org/document/10322535

Computer Analysis of Images and Patterns: 20th International Conference (CAIP 2023) ACM   *Limassol, Cyprus*

V NAOSEKPAM, M ISLAM, A CHOURASIA AND N SAHU. EMBiL: AN ENGLISH-MANIPURI BI-LINGUAL BENCHMARK FOR SCENE   *September 2023*

TEXT DETECTION AND LANGUAGE IDENTIFICATION

- Developed EMBiL, a scene image dataset with English and Manipuri text, and proposed SceneTextYOLO-Net based on YOLOv5 for simultaneous text detection and language identification, achieving promising results on EMBiL and ICDAR2015 datasets
- DOI: https://doi.org/10.1007/978-3-031-44237-7_7

Projects

Unattended Luggage Detection in Public Places *Bhubaneswar, Odisha*
Ongoing Collaborative Project *August 2024 - Present*

Diabetes Macular Oedema detection from OCT-scanned images *Bhubaneswar, Odisha*
Ongoing Collaborative Project *May 2024 - Present*

IoT Gas Monitoring System *Guwahati, Assam*
Course: IOT *March 2023*
- Utilized NodeMCU, MQ2 gas sensor, and a buzzer to develop a gas monitoring system that detects and alerts on gas levels
- Implemented MQTT for real-time data transmission and used ThingSpeak for cloud-based data analysis and monitoring

Online Feedback System *Guwahati, Assam*
Course: DBMS *November 2021*
- Created an intuitive user interface using HTML, CSS, and JavaScript for seamless student feedback submission
- Developed the server-side logic and database management using PHP and MySQL to efficiently handle and store feedback data

Online Blogging System *Bhopal, Madhya Pradesh*
Developer *July 2020*
- Developed a blogging platform using C and PHP allowing users to share and publish their ideas and views online, making them accessible to a broader audience for reading and engagement

Student Record Keeper *Bhopal, Madhya Pradesh*
Developer *June 2017*
- Created a student record management system using C++ to handle and organize student data efficiently
- Provided a streamlined and accessible way for departments and organizations to manage student records

Certifications

- Machine learning and AI by working on Hands-on Projects
- Java Programming for Complete Beginner
- 100 Python Beginners Coding Practices
- Go from Beginner to Advanced with Google Docs
- C++ Programming Step By Step From Beginner To Ultimate Level
- Learn Figma for Web Design, User Interface, UI UX
- Canva 2022 Graphic Design Class | Latest Canva Version 3.0
- Python Programming For absolute beginners : Hands-on Python
- Complete Drawing Megacourse: Beginner to Expert
- C++ programming through C

Skills

Computer

Programming Language, Frameworks, Database, Tools

- Programming Language: Java, Python, C, C++, HTML, CSS | Frameworks: OpenCv, Bootstrap, Spring, SpringBoot
- Database: MySQL | Design Tools: Figma, Canva, Github

Language

Fluent in English, Hindi

- English: Fluent (Utilized extensively in professional settings, including teaching, research, and academic writing)
- Hindi: Native

Activity

- 3 star coder in HackerRank
- Instructed in FDP "Python Programming From Modular Basics to Advanced Techniques" in July 2024
- National Level Short-Term Training Programme on Statistical Machine Learning in August 2023
- Participated workshop on Brain Computer Interface organised by IIIT Guwahati, Dept. of Science & Technology Govt. of India
- Participated in National Level Quiz, CHIMERA-X in NIT Bhopal
- Participated in Scout & Guide Programs from 2010-2016