Achyut Tiwari

achyuttiwari@icloud.com / achyuttiwari0852@gmail.com

Website • LinkedIn • Google Scholar • Github

EXPERIENCE	**TATA Consultancy Services**, Bangalore, Karnataka, India	
	▪ Systems Engineer	Oct 2023 – Current

EDUCATION

Jaypee University of Information Technology, Solan, Himachal Pradesh, India

B.Tech in Computer Science and Engineering — Jul 2019 – May 2023
- Cumulative GPA: 7.9/10

Saint Xavier's Senior Secondary School, Hardoi, Uttar Pradesh, India

▪ 10+2 in PCM with Computer Science — May 2016 – May 2018
- Chairman of Disciplinary Committee.

INTERNSHIP EXPERIENCE

SynchSoft Technologies, UP, India

▪ Devops Intern, Production Team — Jun 2022 – Jul 2022
- Orchestrated CI/CD for diverse projects.
- Dockerized web & Android apps; managed via Kubernetes.

PUBLICATIONS

JOURNALS

[1] A. Tiwari, A. Chugh, and A. Sharma, "Ensemble framework for cardiovascular disease prediction," *Journal of Computers in Biology and Medicine,* Vol. 146, May 2022 [Impact Factor- 7.7]

[2] A. Tiwari , A. Gupta and T. Gupta, "A Robust Approach to Shear Strength Prediction of Reinforced Concrete Deep Beams using Ensemble Learning with SHAP Interpretability," Mar 2023 [Under Review R2].

[3] A. Gupta, S. Gowda, A. Tiwari and T. Gupta, "XGBoost-SHAP Framework for Asphalt Pavement Condition Evaluation," Sep 2023 [Manuscript Submitted].

[4] R. Mohana, A. Tiwari , A. Pachauri and A. Sharma, "Intelligent Load Balancing of User Requests from IoT Devices in a Fog Environment," Mar 2023 [Manuscript Submitted].

BOOK CHAPTER(S)

[1] A. Tiwari, A. Chugh, and A. Sharma, "Uses of artificial intelligence with human-computer interaction in psychology, in: Innovations in Artificial Intelligence and Human-Computer Interaction in the Digital Era ," *Intelligent Data-Centric Systems, Academic Press, 2023, pp. 173–205.,* Jul 2023 .

NON-TECHNICAL

[1] A. Tiwari, V.K. Sehgal, and S. Sharma, "Jaypee University of Information Technology Siam Student chapter celebrates successful establishment. ", SIAM News. May 2023.

[2] A. Tiwari and Ashok Kumar Gupta, "Ensemble Learning for Structure Longevity", SIAM News. Sep 2023.

AWARDS & HONOURS

▪ Society for Industrial & Applied Mathematics (SIAM) Travel Awards(Funding)–$800 — Nov 2022
Selected as Student chapter representative to SIAM Conference of CSE organised at Amsterdam.

▪ Honorary President & Chairman of SIAM JUIT — Feb 2023
For Outstanding Leadership in the founding tenure.

PROJECTS

▪ Cloud Continuous Delivery of Micro-services — Jan 2022 – Jun 2022
- Implemented Greedy Algorithm to improve Quality of Service & Boot time of micro-services.

▪ Soldier Strap — Aug 2019 – Nov 2019
- Built Soldier Strap using multiple Internet of Things devices.
- Explored future scope of the concept with respect to encryption.

PROFESSIONAL AFFILIATIONS	**Society for Industrial & Applied Mathematics**, Philadelphia, PA 19104 USA

- Nominated Member- 020990506   2022 – Present

Association for Computing Machinery,
New York, NY, USA

- Member- 5377283   2022 – Present

CAMPUS ACTIVITIES

Society for Industrial & Applied Mathematics, Jaypee University of Information Technology

- Founding President   Sep 2022 – Feb 2023
  - Chairman of the Executive Committee. Founded the 6th SIAM Student Chapter of India.
  - Increased SIAM members from 5 to 70.
  - Started Distinguished Speaker Seminar under SIAM Lecture Initiative.
  - Represented the chapter on multiple International forums.

Alumni Committee, Jaypee University of Information Technology

- Secretary   Oct 2021 – Apr 2022
  - Headed various JUIT alumni affairs division tasks including hosting various Alumni Talks.
  - Increased Placement offers by 10% in year 2022-23.
  - Proposed Distinguished Alumni Awards to the Academic Council.

Procurement & Event Management Committee, Jaypee University of Information Technology

- Coordinator   Oct 2021 – Sep 2022
  - Headed Procurement, Sanctions & Event Management for the official student governing body
  - Procured Items worth of 5 lakh INR.

LANGUAGES

- Hindi: Native language.
- English: Fluent (speaking, reading, writing).

SKILLS

LaTeX, Python, CPP, SQL, Kubernetes, Docker, Adobe Photoshop, Machine Learning, OOPS.

INTERESTS

Indic History, Linguistics, Economics.

REFERENCES

- **Prof. (Dr.) Ashok Kumar Gupta**
  Professor & Dean (Academics & Research) at the Jaypee University of Information Technology
  Email: ashok.gupta@juit.ac.in
- **Prof. (Dr.) Vivek Kumar Sehgal**
  Professor & HoD of Computer Science & IT at the Jaypee University of Information Technology
  Email: vivek.sehgal@juit.ac.in
- **Dr. Aman Sharma**
  Assitant Professor of Computer Science at the Jaypee University of Information Technology
  Email: aman.sharma@juit.ac.in
- **Dr. Ravindara Bhatt**
  Associate Professor of Computer Science at the Jaypee University of Information Technology
  Email: ravindara.bhatt@juit.ac.in

[CV compiled on 2023-11-08 for IISc]