



# Mitesh Chakma

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## SUMMARY

Software engineering graduate with experience in Python development, backend systems, and data workflows supporting large-scale AI and LLM training. I have worked with internal applications, REST APIs, and structured datasets, focusing on data quality and reliable processing. After completing my MSc in Software Engineering and Digital Transformation at LUT University, I am now seeking a role in Finland to apply my experience in backend architecture and AI data engineering.

## SKILLS

- Programming Language: Python, JavaScript
- Data Engineering: PySpark, Pandas, NumPy, ETL Pipelines, Data Validation
- GenAI: Prompt Engineering, LLM Evaluation
- Database: PostgreSQL, MongoDB
- Version Control: Git, Jira, Bitbucket, Trello
- Development & Operation: AWS S3, Docker
- ML Tools: Scikit-learn, Feature Engineering, Model Evaluation
- Data Visualization: Matplotlib, Seaborn

## WORK EXPERIENCES

January 2023 - July 2025 **AI Trainer | TURING | Silicon Valley, California, United States | Remote**

### Leadership Responsibilities:

- Led a remote team of AI trainers and data specialists to scale LLM training workflows using tools like Python, Pandas, and SQL for data preparation, while managing project timelines through Jira.
- Conducted code reviews and provided technical guidance on ETL pipelines, data validation scripts, and prompt design using Git, GitHub, and VS Code, ensuring consistent engineering standards.
- Mentored team members in dataset curation and prompt optimization for OpenAI and Microsoft models, implementing established evaluation frameworks to maintain high-quality LLM performance.

### Technical Contributions:

- Optimized AI training data pipelines for LLM development by preparing high-quality datasets, implementing ETL processes, and automating validation workflows, ensuring clean and structured data for improved model training.
- Enhanced LLM performance and output quality by curating and processing diverse text datasets, identifying biases, and refining inputs to improve contextual understanding and response accuracy.
- Improved model evaluation and validation by assisting in fine-tuning LLMs, conducting iterative testing, and analyzing outputs to enhance model robustness and reduce hallucinations.

December 2020 - December 2022 **Software Engineer | FernTech Solutions Ltd. | Dhaka, Bangladesh**

- Led backend development for “HN CitiPages”, a mobile-only, location-based social media platform allowing users to share text, images, videos, audio, and voice updates with others in their local area.
- Developed scalable Django/PostgreSQL services with AWS S3 integration, supporting advanced features like voice updates and category based feeds. Optimized backend architecture to increase upload capacity and significantly drive user engagement and feedback.
- Collaborated with mobile app developers to ensure smooth integration via RESTful APIs and managed deployments using AWS EC2 and Nginx.

## Education

2023 - 2025 MSc in Software Engineering | Lappeenranta University of Technology, Lappeenranta, Finland

2013 - 2017 BSc in Computer Science | BRAC University, Dhaka, Bangladesh

August 2016 - December 2016 Exchange Student, Computer Science | Kent State University, OH, USA | Administered by: World Learning  
Sponsored by: US Department of State’s Bureau of Educational and Cultural Affairs

## Publications

PUBLICATION 1: “Determining Land Use and Land Cover Changes and Predicting the Growth of Dhaka, Bangladesh Using Remote Sensing and GIS Techniques”, Malaysia, ICCESSAT2018

URL:<https://iopscience.iop.org/article/10.1088/1742-6596/1152/1/012023>

PUBLICATION 2: “Change Detection of the Sundarban Part of Bangladesh Using Remote Sensing and GIS Techniques with Machine Learning Algorithms”, Germany, IAC 2018

URL:<https://iafastro.directory/iac/paper/id/47723/summary/>