SHAKIB AL HASAN

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 Portfolio — LinkedIn — GitHub

RESEARCH INTERESTS

Natural Language Processing, Deep Learning, Transformer-Based Models, Knowledge Graphs, and Intelligent Systems for Social Media and Big Data Analytics.

EDUCATION

Northwestern Polytechnical University *Xi'an, China*
Master of Engineering in Software Engineering *Sep 2025 – Mar 2028 (Expected)*
Current Research: UAV Path Planning for Hybrid Air–Ground Navigation Systems

Sichuan University *Chengdu, China*
Bachelor of Engineering in Software Engineering *Sep 2021 – June 2025*
CGPA: 3.71/4.00 (88%)
Thesis: Transformer-Based Approaches for Automated Detection of Suicidal Ideation on Social Media
Achievement: Achieved the top overall thesis score across supervisor, blind review, and defense evaluations

WORK EXPERIENCE

University Research Support Worker *Sep 2024 – Sep 2025*
Computer Information Integration and Systems Laboratory, Sichuan University *Chengdu, China*

- Contributed to advanced deep learning research, focusing on sentiment analysis across diverse social media datasets.
- Performed independent data analysis and model evaluation, supporting the development of innovative AI solutions that advanced ongoing research projects.

Tech Stack: Python, PyTorch, NLP, Deep Learning, Linux, Git, Data Analysis

Data Engineer Intern *Mar 2024 – Jul 2024*
Chengdu Suncaper Data Co., Ltd. *Chengdu, China*

- Conducted comprehensive data analysis on the Yelp dataset using PySpark and Python, extracting actionable insights on business trends, customer behavior, and sentiment patterns.
- Developed interactive visualizations in Apache Zeppelin to monitor business performance and support data-driven decision-making.
- Designed and implemented a dynamic web application integrating personalized recommendations, sentiment analysis, and business intelligence using big data and machine learning technologies.

Tech Stack: Python, PySpark, Apache Zeppelin, SQL, JIRA, Hadoop, Linux, Git, Big Data, Data Visualization

TECHNICAL SKILLS

Programming & Frameworks: Python, C/C++, Java, SQL, HTML, CSS, React.js, Flask
Data Science & Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, C++ STL
Big Data & Cloud: Apache Spark, PySpark, Hadoop, MongoDB, MySQL, SQL Server, Firebase
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Jupyter Notebook, Microsoft Power BI, Kaggle, Google Colab
Project Management & Collaboration: Agile, Scrum, Jira, Git, CI/CD
Soft Skills: Communication, Teamwork, Problem-Solving, Adaptability, Time Management

PUBLICATIONS

Filters: Leveraging Frequency Filters for Real-World Time Series Forecasting, *SIGKDD 2026 Research Track (Under Review, Paper #480)*.

Balancing Credit Scoring Data: A Minority Random Imputation Approach, *International Journal of Information Technology & Decision Making (Under Review)*.

PROJECTS

Transformer-Based Suicidal Ideation Detection   *Nov 2024 – May 2025*
Developed a BERT-based NLP system for suicidal ideation detection on 232k Reddit posts, achieving 97.63% F1-score and outperforming 10 alternative models.
Tech Stack: Python, PyTorch, Hugging Face, Scikit-learn, Kaggle   **Project Link**

Big Data Analysis and Recommendation System   *Feb 2024 – Jun 2024*
Built a web application to analyze Yelp data and provide personalized recommendations.
Tech Stack: PySpark, Python, Apache Zeppelin, HTML/CSS, Linux   **Project Link**

Student Information Management System   *Mar 2024 – Jun 2024*
Developed a Python-SQLite system to streamline student data management at Sichuan University.
Tech Stack: Python, SQLite, Pandas, Matplotlib   **Project Link**

Soldier of Fortune: 2D Tactical Shooter Game   *Sep 2024 – Dec 2024*
Created a tactical 2D shooter game with AI-driven enemies and strategic gameplay.
Tech Stack: Python, Pygame   **Project Link**

Advanced Interactive 3D Puppet Animation System   *Sep 2023 – Nov 2023*
Developed an interactive 3D puppet with hierarchical modeling and custom animations using OpenGL.
Tech Stack: OpenGL, C++, GLUT   **Project Link**

AWARDS & SCHOLARSHIPS

Xi'an City "Belt and Road" International Students Scholarship – First Prize   *Sep 2025 – Mar 2028*
Full tuition, accommodation, and 2000 RMB/month stipend for 12 months at Northwestern Polytechnical University.

Chinese Government "Belt and Road" Scholarship   *Sep 2021 – Jul 2025*
Full undergraduate tuition and living support at Sichuan University.

EXTRA-CURRICULAR ACTIVITIES

Aspire Leaders Program (Harvard/Aspire Institute)   *Mar 2025*
Completed a leadership program on self-confidence, critical thinking, and global social impact.

Captain, Sichuan University Cricket Team   *2023 – 2024*
Led the university cricket team, fostering teamwork, discipline, and competitive success.

Bangladesh-China Youth Student Association (BCYSA) Campus Ambassador   *Jul 2023 – Aug 2024*
Promoted Bangladesh-China cultural exchange and organized campus initiatives as a student leader.

SCU English Club – Oral Department Officer   *Sep 2023 – Jun 2024*
Coordinated English speaking activities, enhancing student communication and engagement.

National Environment Olympiad Participant   *2017, University of Dhaka (UNDP supported)*
Participated in art and poster competitions promoting environmental awareness.

LANGUAGES

English: C1 (Advanced proficiency), **Chinese:** B2 (Intermediate proficiency), **German:** A1 (Elementary proficiency)

LICENSES & CERTIFICATIONS

Supervised Machine Learning: Regression and Classification   *Sep 2024 – Dec 2024*
DeepLearning.AI & Stanford University – Built Python-based machine learning models focusing on linear and logistic regression for prediction and classification.
Certification: VDXGRPUZ9IR8

REFERENCES

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