

AKSHAT SHRIVASTAVA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Mechanical Engineering IIT (BHU), Varanasi	7.85	2026
Akshat Shrivastava (XII)	DPS Rewari, Haryana	91.60	2022
Akshat Shrivastava (X)	DPS Rewari, Haryana	96.80	2020

SKILLS

- **Languages:** C++, Python, C, Rust, Pandas, Armadillo, Numpy, OpenCV, SQL
- **Tools:** MATLAB, Simulink, CAD, Pytorch, Tensorflow, Gazebo, ROS, Ardupilot, EasyEDA, Arduino, WasmEdge

INTERNSHIP/TRAINING

Computational Intelligence Lab , IISC Bangalore

May 2024 - July 2024

Research intern

- **Exposure:** ROS, Ardupilot, Gazebo, Linux, UAV algorithms
- Processed data of depth camera and radar
- Created algorithm for terrain following for drone system using depth data
- Sensor fusion

CNCF - The Linux Foundation Mentee

May 2024 - July 2024

Mentee at CNCF - WasmEdge: Finetune LLM models for Rust coding assistance (2024 Term 2)

- **Exposure:** LLM, WasmEdge, Llama, LlamaEdge
- Created Datasets for fine tuning of Rust coding assistant
- Fine tuned multiple LLM's with varying parameters comparing their performance
- Working on integrating fine tuned LLM's in WasmEdge and flows network backend

PROJECTS

Agricultural theme manual and autonomous Bot

Feb 2024– April 2024

Team Robocon 2024, IIT BHU

- Worked on various design and hardware problems and worked on analysis of material and efficiency of various mechanisms
- Implemented pneumatic and spring loaded contraptions
- Worked on data filtration and application of kalman filter on IMU data
- [Documentation](#) | [Videos](#)

Built 6 d.o.f mechanism for package management in industrial environment

Aug 2023– Nov 2023

consisted of core XY mechanism with robotic arm

- Made custom spring back mechanism
- Created grbl functions from scratch in arduino
- Used YOLO models to detect the box
- [Documentation](#) | [Video](#)

Built Inception V1 model from scratch in pytorch for use in surveillance

Dec 2023– Jan 2024

Inception V1 also known as googlenet is a CNN model which is 27 layers deep

- Shows high performance gain on CNN's
- Efficient utilisation of computing resource with minimal increase in computation load for the high-performance output of an Inception network.
- Implementation: [Google Collab](#)

POSITION OF RESPONSIBILITY

- **Event Executive, Technex:** Served as Event Executive for Robonex events of Technex and made sure that event goes smoothly and contributed in arena making for micro mouse event(March 2024)
- **MazeX mentor:** Mentored new entrants to make their first line following maze solving robot (September 2023 - October 2023)
- **Event Executive, E Summit'24:** Served as event executive at e summit of IIT BHU 2024 and handled operations and ensured smooth functioning of events(January 2024 - February 2024)

- **INI Associate, E-Cell, IIT BHU:** As an associate in the Innovation and Incubation (INI) vertical of E Cell I Spearheaded initiatives at on-campus incubators (CiscoThingQbator, R-ABI, NCL IITBHU) to foster student entrepreneurship and innovation. Managed the recording and maintenance of research and entrepreneurship reports submitted to the Ministry of Education, directly enhancing the institute's **NIRF ranking**. Conceptualized and launched the First-Ever Postgraduate Entrepreneurship Program (IPEP), emphasizing industry commercialization of institutional research. (2023 - ongoing)
- **Core member, Robotics Club IIT BHU:** Served as core member of the Robotics Club and was a part of multiple projects and knowledge transfer sessions(2023 - ongoing)
- **Y20 Volunteer:** Worked as volunteer at Y20 summit held at Varanasi(August 2023)
- **PR Team, Parliament:** Served in PR team of Parliament of IIT BHU and assisted in making of posts of various events(2023 - 2024)

HONOURS AND ACHIEVEMENTS

- **KVPY SX Scholar:** Received prestigious KVPY scholarship with All India Rank 1745 from government of India
- **IOQM Merit Certificate:** Secured merit certificate in IOQM 2021-22, previously known as Regional Mathematics Olympiad(**RMO**)
- **HSCTSS Scholar:** Received prestigious HSCTSS scholarship, state level of **NTSE** in Haryana
- **Flipkart Grid:** Secured **All India Rank 30** in Flipkart Grid**robotics** problem statement
- **Regionalist, HULT Prize:** Made it to Mumbai Regionals of HULT Prize 2023.
- **Cisco ThingQbator:** Reached to startup stage(top 30) teams in Cisco ThingQbator cohort 6
- **StartupIndia SmartIdeathon:** Finalist in hackathon held by startupindia, Top 8 nationally
- **Bizarro SARC Tank:** Secured 2nd position in Inter IIT pitching competition held by SARC IIT Bombay

EXTRA-CURRICULAR ACTIVITIES

- **Aagman Group dance:** Secured 1st position in intercollegiate Group Dance competition
- **Tesseract:** Secured 3rd position in Tesseract, Treasure Hunt event conducted at E-Summit'23 at IIT BHU

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