KIRTI GUPTA

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Experienced professional with 5+ years in product and service-based organizations, excelling in Python, Machine Learning, AI, and Agile practices. Skilled in management, mentoring, and R&D, I lead cross-functional teams, drive innovation, and deliver business-critical solutions. With strong communication and strategic leadership abilities, I foster collaboration and growth in diverse teams while consistently achieving goals. A continuous learner, I thrive in dynamic environments, aligning technical solutions with organizational success.

TECHNICAL SKILLS

Programming Languages	Python, Shell scripting, C, C++
Artificial Intelligence:	Machine learning, Natural language processing, Data Visualization, Speech recognition, Large Language Models (LLM), Generative AI, Data wrangling
Tools	Pandas, NumPy, Matplotlib, TensorFlow, Keras, Scikit-Learn, Soundevices, Torchaudio, PyTorch, NLTK, Tableau, PowerBI, Docker/ Kubernetes
Frameworks	Flask (Python)
Database	MySQL, Oracle database
Version control	SVN (subversion), Git, and GitHub
SDLC model	Agile methodology (Scrum, Kanban, JIRA), DevOps
Additional Skills	Client Communication, Project Management, Independent Problem Solving, Agile Development, Time Management, Product development, Decision making, Quantitative analysis, Leadership, Teamwork, Strategic thinking

PROFESSIONAL EXPERIENCE

Software Engineer (ML and Data analytics)
06/2023 - Present

ALI GROUP (WELBILT Inc.)   (Working remote) *England, UK*

- **Research & Development** of high-end equipments using **Machine learning** and **Advanced AI techniques** for better business experience.
- Service data keywords analysis using **Natural language processing** and **data analytics** techniques to preempt services, extend life span, and ensure reliability of electrical equipment and **service quality**.
- Helped Accessibility Partners, and developed a tool to detect the end of the cook cycle by identifying the descriptive beep sound of an appliance using **sound recognition and analysis algorithms**.
- Developing Proof of concept for **AI Image recognition** in ovens, to analyze images of food items being cooked ensuring quality standards and optimized cooking cycle.
- Key member to **Plan, Execute, Measure** results and drive improvements and develop new features.
- **Lead**, **Recruite** and **Mentor** Junior engineers.

AI Software Engineer
09/2019 - 01/2022

INCEDO INC. (Prosoft Inc, USA)   *Gurgaon, Haryana, India*

- **Managed** product development of a network security project as a key member to consolidate end-to-end service using **Python**, **REST API**, **Linux** utilities, and **Machine Learning** in **agile** development.
- Collaborated with the team to develop new software features, debug issues as they arise, conduct thorough code review, unit and integration testing to ensure high-quality releases and assets by leading project development.
- **Monitoring KPIs** (Key Performance Indicators) with product owners, and business stakeholders (B2B communication) to drive the **delivery of successful business requirements** by programming skills.
- Contributed to **documentation** and maintaining software applications/features in the User manual.
- **Training** junior team members, proactively **sharing my technical knowledge** and technical support in product development.

Research Data Science Engineer
03/2019 – 09/2019

VIDOOLY MEDIA TECH PVT LTD.   *Noida, Uttar Pradesh, India*

- Worked on a smart parking system monitoring the CCTV footage of HPCL, India using real-time data, manual annotation of images, and running an **ML algorithm** to analyze the best-fit solution.

- **Prototype** and **pipeline** creation for new ML use cases using advanced analytics and **complex data sets**.
- Individually **developed an ML algorithm** to categorize YouTube videos as alcoholic or not based on the **Image classification** algorithm of the video of supervised learning with considerable accuracy results.
- Designed algorithms to **analyze/interpret large data sets** to derive insights and **develop predictive models**.
- Dealing with clients' **research and development** for improving **data management** approach with requirements gathering and transforming insights to a deliverable state using data analytics skills.

EDUCATION

Masters in Artificial Intelligence
(Result - 2:1)   *02/2022 – 03/2023*
UNIVERSITY OF SURREY   *Surrey, England, UK*
Modules covered: Image processing and Deep learning, AI programming, Image compression, Innovation Management, Internet of Things (IoT), Computer vision and pattern recognition, Neural networks, Innovation management, and AI ethics.

Bachelor of Technology – Information Technology
(Result-80%)   *08/2015 – 05/2019*
APJ ABDUL KALAM TECHNICAL UNIVERSITY (GLBITM)   *Noida, Uttar Pradesh, India*
Modules covered: Data structures using C, Design, and analysis of algorithms, Database management, Artificial Intelligence, and Distributed systems.

THESIS PROJECTS

Privacy-Preserving Audio Machine Learning Using Federated Learning (FL)
04/2022 – 09/2022
UNIVERSITY OF SURREY   *Surrey, England, UK*

- Developed an effective FL model to analyze whether FL can be used over any traditional model by ensuring the privacy of data using a Large dataset, Distributed system (HTcondor, CUDA), and time-frequency analysis.
- FL model leverages data from sound sensors deployed at multiple places - public or private and has huge applications in security and assistance such as 360-degree smart home security and 24hrs Deaf assistance.

Cancer prediction and its visual analysis using the text-based clinical dataset
03/2018 - 02/2019
APJ ABDUL KALAM TECHNICAL UNIVERSITY (GLBITM)   *Noida, Uttar Pradesh, India*

- An exploratory data analysis of the clinical blood dataset of women to analyze the chances of occurrence of breast cancer, by leveraging Philippian's women dataset crawled from the UCL repository and plotting them for better analysis using ML classification algorithms.

RESPONSIBLE OPPORTUNITIES

Technical Recruiter, *Welbilt UK*   *Feb 2023-Present*
Course Representative, *University of Surrey, England, UK*   *Feb 2022 - April 2023*
Member of Women in Engineering Society, *University of Surrey, England, UK*   *Feb 2022 - April 202*
Member of Post-graduate Society, *University of Surrey*   *Feb 2022 – April 2023*
Technical/ Placement coordinator, *GLBITM India*   *Jan 2017 - Feb 2019*

AWARDS AND ACHIEVEMENTS

- Selected as the **course representative** of MSc in Artificial intelligence.
- Received **Student scholarship** at the University of Surrey, UK
- Achieved **Innovation and Customer Excellence awards** at Incedo Inc, India in the years 2019 and 2020.
- Received the **Best Bachelor's Thesis Award** in the graduated class of IT at GLBITM, India
- Awarded **Certificate of Appreciation** in Hachathon'2021, India
- Selected for **ACM-India summer school program,** Pune - Principles of Programming Languages.

ADDITIONAL TRAINING

- AL/ML platform workshop ~ *Abacus.AI, London*   *Jul 2022*
- DevOps Certification training ~ *Simplilearn*   *Aug 2021*
- Machine Learning A-Z™: Hands-On Python & R In Data Science ~ *Udemy*   *Mar 2019*
- The Python Mega Course: Build 10 Real World Applications ~ *Udemy*   *Jan 2019*
- Data science & Machine learning Using python ~ *Ardent Computech Pvt ltd, India*   *Jun 2018*