

PARAMVEER SINGH

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PROFILE OF SKILLS

- Possess 3+ years of professional experience as a Principal research analyst for handling projects in Intellectual property (IP) research domain
- Acquired skills of consistent learning and critical thinking on emerging technologies to deliver insightful information for new product development and process improvement within strict timelines
- Using Python programming for statistics and modeling since last 2 years and has acquired excellent skills in NumPy, Matplotlib, Pandas, Natural Language Toolkit (NLTK), Gensim and Scikit-learn libraries
- Developed text analytics tool using python libraries (BeautifulSoup, SciPy, NLTK and Scikit-learn)
- Automated data sanitization and analysis tasks by implementing Machine Learning algorithm
- Excellent knowledge of Microsoft Excel, WordPad and PowerPoint
- Product Design software proficiency in Creo/Pro-E, Autocad and Catia
- Developed ability to work efficiently in high pressure and fast-paced environment
- Strong verbal and written communication skills in English, Hindi and Punjabi

EDUCATION

Master of Engineering in Mechanical (Automotive Option)

January 2020 – March 2021

University of Windsor, Windsor, Ontario

Bachelor of Engineering in Mechanical

August 2012 - July 2016

UIET, Panjab University, Chandigarh, India

WORK EXPERIENCES

Quality Inspector (Part Time)

April 2020 - August 2020

Linamar Corporation, Gulf, Ontario, Canada

- Inspected transmission gears for rust and excessive material in Transgear department
- Inspected the differential gear assembly for rust and damages and cross-checked the bevel gears internal diameter and splines for conformance to engineering specifications in Vehcom department

Principal Research Analyst

June 2016 - December 2019

Stellarix Consultancy Services Pvt. Ltd., Jaipur, India

- Explored new and emerging technologies of mechanical and manufacturing domain to develop a thorough understanding of project initiation, execution and proposal making
- Conducted both patent and literature searches pertaining to technology scouting, Infringement, competitive intelligence, SWOT analysis, landscape study and product portfolio
- Analyzed patents and product technologies to deliver insightful information related to trends, licensing, designs, new product development and process improvement within strict timelines
- Prepared analytical reports of qualitative and quantitative data in MS Word, Excel and PowerPoint
- Created Excel Macro files to reduce the time taken in report preparation and projects tracking
- Developed web data scrapping and analysis tool through Python software

Calibration Engineer

January 2016 - June 2016

Medhaavi Center for Automotive Research & Development (Regd.), Hoshiarpur, India

- Developed a CRDI system for mechanical KIRLOSKAR diesel engine with an open engine control unit (ECU) controlled by NIRA software which improved engine efficiency as well as control
- Increased working range of engine Variable Valve Timing (VVT) by controlling PWM of valve actuator
- Controlled the pneumatic valve function of Exhaust gas recirculation (EGR) by Arduino electronic board

Production Engineering Intern

May 2015 - July 2015

International Tractors Ltd (Sonalika), Hoshiarpur, India

- Worked in the production department of tractor equipment and learnt about material acquisition and waste management by lean manufacturing principle
- Assured the production line operation standards are met by flagging and/or coordinating necessary resources to troubleshoot situations which may create downtime and impact OEE (Overall Equipment Effectiveness) results

CO - ACADEMIC EXPERIENCE

Project Lead

August 2014 - February 2015

ECO-KART 2015 (National level competition)

- Headed a team of 15 members for designing an electric vehicle
- Designed 3D model of chassis frame in Creo/Pro-E software and simulate in Ansys software
- Assisted co-workers by conceptualizing various ideas for designing and fabrication of the braking system, seating system and steering system for electric vehicle

AWARDS AND CERTIFICATION

- Certificate of course completion in Python 3 and Machine learning from SoloLearn
- Certification of 3D part CAD software in ProE/CREO from CADD Centre
- Awarded "Degree of Honors" in mechanical engineering from Punjab University for securing CGPA 8.25 cumulatively in all four years
- Received Academic Excellence Award from Panjab University for attaining 3rd position amongst top 5 rank holders of the mechanical branch in the year 2014

ADDITIONAL TECHNICAL TRAINING

Visualizing Text Analytics with Python, www.edx.org

September 2020 - February 2021

Machine Learning with Python Online Course, www.edx.org

March 2019 - May 2020

MATLAB and Simulink Online Course, www.mathworks.com/

June 2017- December 2017